UMESH KUMAR DEWANGAN



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UMESH KUMAR DEWANGAN
Professor & Head Civil Engineering Department

Career Objective	Serving as a part of Society as an expert of an Institute where my technical knowledge and skills are serve for the purpose for the betterment of the country as a human being, and to further enhanced, in turn contributing to the growth of the institute, Nation.							
Professional	Total Te	Total Teaching Experience (as Faculty) = 25 Years(regular)						
experience	National	National Institute of Technology, Raipur (from 2006)						
	Institute Profile: The Institute is institute of nati importance with deemed university status. It has a visio contribute to society by research and creating good engineer. March 2006 onwards:							
	Sr.No.	Position Held / Designation	Period		Period in			
			From	То	Years			
2	1	Associate Professor in Civil Engg Dept.	Jan 2001	April 2013	13 Yrs.			
	2	Professor	April 2013	till now	~~ 3 Yrs			

	Designation: Professor					
	Responsibilities:					
	Teaching Structural Analysis II, Advanced Reinforced					
	Concrete Design, Finite Element Method, Computer					
	Application in Civil Engg. Supervising Researchers on their research / PhD work					
	 Supervising Researchers on their research / PhD work Member DAC/DGC 					
	Member DAC/DGC Member Senate					
	 Head of the Department of Civil Engineering 					
	 Professor In Charge for NSS activity. 					
	Member of various committee like Testing /Consultancy,					
	Eclectika, building					
	Expert lectures in Subject Area.					
	Member PMGSY, State Technical Agency at NIT Pairway					
	Raipur					
Summary of qualifications	· ·					
			Name of			
	Sr.No.	Degree	the	Year of	Specialization	
	5242104	Held	University /	Award		
			Institute		Civil	
	1	B. E.			Engineering	
		МБ			Structural	
	2	M. E.			Engineering	
			Indian			
			Institute of			
	3	Ph. D.	Technology,	2006	Structural	
			Kharagpur (I.I.T.		Engineering	
			Kharagpur)			
Research Interest	Structural	Damage	Detection. H	eath Mo	nitoring. System	
	Structural Damage Detection, Heath Monitoring, System Identification, Finite Element, Computational Mechanics,					
	MATLAB	}		-		
Research Contribution	International Journal - Published Papers					
	1 5	TT 4 1	1 *** **		2016) ((2)	
					2016) "Prediction	
	of Crack Locations using Non Destructive Tests", Indian Journal of Science and Technology, Vol 9(34), DOI: 10.17485/ijst/2016/v9i34/95491, September 2016 (Scopus Indexed)					
	2. P. H. Arundas and U. K. Dewangan (2016) "Health Monitoring using the Frequency Response under					
	<u> </u>	onitoring	using the Fr	equency	Response under	

- Compressive Load", Indian Journal of Science and Technology, Vol 9(35), DOI: 10.17485/ijst/2016/v9i35/97734, September 2016 (Scopus Indexed)
- 3. Shalem Ernest and U.K.Dewangan(2016) "Comparison of eigen frequency convergence criteria on a bridge structure", JCHPS Special Issue 2: August 2016, ISSN: 0974-2115 pp 69-74 (Scopus Indexed)
- 4. K. K. Riyas Moideen and U. K. Dewangan (2016) "Effect of Material Nonlinearity on Deflection of Beams and Frames" Indian Journal of Science and Technology, Vol 9(28), DOI: 10.17485/ijst/2016/v9i28/92375, July 2016(Scopus Indexed)
- 5. P. H. Arundas and U. K. Dewangan (2016) "Compressive Strength of Concrete based on Ultrasonic and Impact Echo Test", Indian Journal of Science and Technology, Vol 9(23), DOI: 10.17485/ijst/2016/v9i23/94124, June 2016. (Scopus Indexed)
- 6. K. K. Riyas Moideen and U. K. Dewangan (2016) "Comparative Study of Linear and Geometric Nonlinear Load-Deflection Behaviour of Flexural Steel Members", Indian Journal of Science and Technology, Vol 9(18), DOI: 10.17485/ijst/2016/v9i18/88147, May 2016. (Scopus Indexed)
- 7. Shalem Ernest, U. K. Dewangan (2016) "Structural Damage Predictions Based on Eigen Frequency Evaluation Techniques" International Journal Of Applied Engineering Research" ISSN 0973-4562 (Scopus Indexed)
- 8. Manoj Kumar Tiwari ,Dr. Samir Bajpai, Dr.U.K.Dewangan(2015) "An Analytical Study of Heavy Metal Concentration in Soil of an Industrial Region of Chhattisgarh, central, India," International Journal of Scientific and Research Publications, Volume 5, Issue 7, July 2015 1, ISSN 2250-3153, www.ijsrp.org
- 9. Shalem Ernest and U. K. Dewangan "Identification of Structural System: Recent Trends and Challenges". International Journal of Structural Engineering and Analysis, Vol. 1: Issue 1, www.journalspub.com, P 1-8.
- 10. Manoj Kumar Tiwari, Samir Bajpai, U.K. Dewangan,

- Raunak Kumar Tamrakar (2015) "Assessment of heavy metal concentrations in surface water sources in an industrial region of central India" Karbala International Journal of Modern Science 1 (2015) 9-14.(SCI Indexed)
- 11. Manoj Kumar Tiwari, Samir Bajpai, U.K. Dewangan, Raunak Kumar Tamrakar (2015) "Suitability of leaching test methods for fly ash and slag: A review", Journal of Radiation Research and Applied Sciences, JRRAS170_proof 2 July 2015 1/14 Science Direct. (SCI Indexed)
- 12. Manoj Kumar Tiwari, Dr. Samir Bajpai, Dr. U. K. Dewangan (2012) "Prediction of Industrial Solid Waste with ANFIS Model and its comparison with ANN Model-A Case Study of Durg-Bhilai Twin City India", ISSN: 2277-3754, Int. J. of Engg. & Innovative Tech. (IJEIT) V.2/6, Dec. 2012, P. 192 -201.
- 13. Manoj Kumar Tiwari, Dr. Samir Bajpai, Dr. U. K. Dewangan(2012) "A Review on fly ash generation, its composition and Environmental Impact for Durg Bhilai Twin City industrial Region" Research J.Engineering and Tech. 3(4): Oct Dec 2012, ISSN 0976-2973, P314-318, www.anvpublication.org
- 14. Umesh Kumar Dewangan (2012) "Structural Parameter Identification A New Concept"- Int. J. Pure Appl. Sci. Technology.,10(1) (2012), pp. 1-9
- 15. U. K. Dewangan (2011) Structural Damage Existence Prediction with Few Measurements International Journal of Engineering Science and Technology (IJEST),, ISSN: 0975-5462 Vol. 3 No.10 October 2011 P 7587-7597.
- 16. U. K. Dewangan and S. V. Barai (2012) "System Identification With Noisy Data- System Identification With Noisy Data" International Journal of Advanced Technology In Civil Engineering, ISSN: 2231 –5721, Volume-1, Issue-2, 2012.
- 17. U. K. Dewangan (2011) "Development of A Structural Health Monitoring System", International Journal of Research In I Management and Engineering (IJRIME), Vol 1 Issue 4, ISSN -2249-1619, Pp 184- 194.
- 18. U. K. Dewangan (2011) "Element Location In System Identification", Indian Journal of Applied Research, Vol 1 Issue 3, December, ISSN -2249-555x, Pp 89-91

International Conferences

- Shalem Ernest, U. K. Dewangan (2016) "Comparison of eigen frequency convergence criteria on a bridge structure" International Conference On Civil, Mechanical And Environmental Technologies (ICCMEET 2016, 26-27, February 2016), Svs College Of Engineering, Coimbatore, Tamilnadu, India – 642109
- 2. Shalem Ernest, U. K. Dewangan (2016) "Structural Damage Predictions Based on Eigen Frequency Evaluation Techniques" International Conference on Recent Trends in Engineering and Material Sciences (March 17-19, 2016), ICEMS 2016 Jaipur National University, Jaipur The Abstract id is 1-IC-1892
- 3. Riyas Moideen, U.K.Dewangan (2016) "Comparative Study of Linear and Nonlinear Deflection of Building Frame for Lateral Seismic Loads" International Conference On Civil, Mechanical And Environmental Technologies (Iccmeet 2016, 26-27, February 2016), Svs College Of Engineering, Coimbatore, Tamilnadu, India 642109
- 4. N S L Mounica & U. K. Dewangan (2013) "Soil Safe Bearing capacity Computation using MATLAB" International Conference Shastrarth (2013), 8-9 Feb. 2013, at RCET, Bhilai. Students Presented (B Tech Students)
- Rashmeet Kaur Khanuja & U.K. Dewangan (2013) "Soil Classification Using MATLAB programming"
 International Conference Shastrarth (2013), 8-9 Feb. 2013, RCET, Bhilai. Students Presented (B Tech Students)
- 6. Shubham Kherpande & U. K. Dewangan "One way Slab Automation Using MATLAB Programming" International Conference Shastrarth (2013), 8-9 Feb. 2013, RCET, Bhilai. Students Presented (B Tech Students)
- 7. V. Yadav & U. K. Dewangan(2013) "Planning & Analysis of a Green Building for Indian Cities" International Conference Shastrarth (2013), 8-9 Feb. 2013, at RCET, Bhilai. Students Presented (B Tech Students)
- 8. U. K. Dewangan and S. V. Barai (2011) "System Identification with Noisy Data", International

Conference on Advances in Civil Engineering, (ICACE-2011), 17th and 18th December 2011, Bhubneshwar (India). pp. 21-26

National Conferences

- 1. Shalem Ernest, U. K. Dewangan (2015) "A Review on Structural Health Monitoring", BITCON 2015, National Level Conference at BIT Durg.
- 2. Yogesh Nirmalkar, Nitin Naik, Saurabh Singh and Dr. U. K. Dewangan (2012) "Effect of storey height on cost optimization for a g+3 commercial office building a case study" National Conference on the Role of Science and Technology for Sustainable development of Chhattisgarh, Shri Shankarachraya Technical Campus, Bhilai, pp 29-32, Students Presented (B Tech Students)
- 3. Patel Yogesh, Rick Bask and Dr. U. K. Dewangan (2012) "Planning and analysis of a Green Building", National Conference on the Role of Science and Technology for Sustainable development of Chhattisgarh", Shri Shankarachraya Technical Campus, Bhilai, pp 53-57Students Presented (with B Tech Students)
- 4. Bhavesh Swarnkar, Ankit Jain, S. V. Deo, and Dr. U. K. Dewangan (2012) "A Comparative Study Of Concrete Mix Design Using British DoE Method, ACI Method and IS Code Method," National Conference on the Role of Science and Technology for Sustainable development of Chhattisgarh, Shri Shankarachraya Technical Campus, Bhilai, pp 53-57, Students Presented (with B Tech Students)
- 5. M.K. Tiwari, Bajpai S. and Dewangan U.K. (2011) "

 Durg Bhilai Twin City: Population Growth and Environmental Problems", National Convention on Integrated Development of Towns as Growth Centers on 15th and 16th Oct 2011 at Raipur, pp 128-131.

Invited Guest Lectures	 "Earthquake Resistant Construction Techniques and Safe Construction Practices" Two Days expert lecture at Govt. Engg. College Jagdalpur 21st - 22nd March 2015 Jagdalpur, Bastar. "Earthquake Resistant Construction Techniques and Safe Construction Practices" Expert lecture at Govt. Engg. College Bilaspur, 12th March 2015 		
Professional Contribution	 Developed New Laboratory Courses: Computer application in Civil Engineering Lab (MATLAB Application) Finite Element Applications in Civil Engg Using the MATLAB code Structural Design experience of various RCC structures. Completed consultancy and testing worth more than Rs. 50 lac. Member interview committee for SSC, Faculty appointment by CSVTU Technical University. 		
Membership of Professional Societies	 Associate member of The Institution of Engineers Life member of ISTE 		
Professional Strengths	 Teaching experience of 25 years. MATLAB base Programming, other software Finite Element Technique. Enquiry committee member for field incidents Member interview committee for SSC, Faculty appointment by CSVTU Technical University 		