

Resume



Name : Dr. Joy Pal
Designation : Assistant Professor
Department : Civil Engineering
Qualification : Ph.D.
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Other Profile Links

Research Gate Link :

Personal Web Link :

Google Scholar Link :

Research Profile

Research Interests : Vibration Based Structural Health Monitoring: AE Based Identification of Source of Damage Location

Brief Research Profile : Current topic for Ph.D. research work: India is blessed with immense wind energy resources. Ministry of New and Renewable Energy (MNRE), Government of India and several state governments have been providing the necessary policy to support it. However, during operation, it has been observed that the connections of the wind tower and the blades are loosened because of time varying loading. Hence it requires performance evaluation for uninterrupted power generation. The research work will focus on Monitoring the wind tower and blades to avoid the catastrophic failure of the structure and blades.

Qualification

Name of the Degree	Year Of Passing	Institute/University
Ph.D.	2017	Indian Institute of Technology Bombay
M.Tech	2011	Indian Institute of Technology Guwahati
B.Tech	2009	Jalpaiguri Government Engineering College (WBUT)

Publications

Year	Journal	Publication	Indexed In
2013	International Journal of Structural Engineering	Performance of damage detection algorithms for health monitoring of joints in steel frame structures using vibration based techniques & 4	Scopus
2015	Journal of Civil Structural Health Monitoring	A combined modal strain energy and particle swarm optimization for health monitoring of structures & 5(4)	Scopus
2017	International Journal of Steel Structures	Estimation of fixity factors of bolted joints in a steel frame structure using a vibration based health monitoring technique & 17(2)	Scopus
2018	Composite Structures	Damage-induced Acoustic Emission Source Identification in an Advanced Sandwich Composite Structure & 202	Scopus
2020	Ultrasonics	Online acoustic emission source localization in concrete structures using iterative and evolutionary algorithms	Scopus

Edited Book/Book Chapter

Type	Title	Publisher	Authors	ISBN/ISSN No.	Year
Book Chapter	Identification of Semi-rigid Joints in Steel Frame Structures Using Vibration-Based Technique	Springer, Singapore	J Pal, S Banerjee	978-981-13-0362-3	2019
Book Chapter	Identification of Loosening of Bolts in a Steel Plane Frame Structure Using Fourier Decomposition Method	Springer, Singapore	J Pal, P Singh, S Banerjee	978-981-15-5692-0	2020

Research Projects

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
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Research Supervision

Programme Name	Scholar Name	Research Topic	Status	Year	Co-Supervisor
M.Tech	Pulkit Singh	Structural Health Monitoring	Completed	2018	1
M.Tech	Rakesh	Structural Health Monitoring	Completed	2018	1
M.Tech	Shubham	Health Monitoring of 3D steel frame structures using FE model updating technique	Completed	2019	0
M.Tech	Shaswat	Health Monitoring of 3D steel frame structures using classical techniques	Completed	2019	0
Ph.D	Maloth Naresh	Health monitoring of Tubular Joints	Ongoing	2020	0
M.Tech	Nikhil Saini	Image Processing based Structural Health Monitoring	Ongoing	2020	0
M.Tech	Sandeep Yadav	Image Processing based Structural Health Monitoring	Ongoing	2020	0
M.Tech	Maninder Pal Singh	Image Processing based Structural Health Monitoring	Ongoing	2020	0

Patents

Name	Reg./Ref.No.	Date Of Award/Filing	Organization	Status
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Teaching

Programme Name	Subjects Taught	From	To	Credits
Assistant Professor	Civil Engineering, Bennett University	01/06/2017	21/11/2018	1.5 years
Assistant Professor	Civil Engineering, NIT Hamirpur	22/11/2018		Continuing

Administrative Responsibilities

Position Held	Organization	From	To	Remarks
Assistant Faculty Incharge	Time-Table	15/12/2018	04/10/2019	04
Assistant Faculty Incharge	Consultancy and Testing	04/07/2019	02/08/2020	10
Convener, DDPC	Civil Engineering	10/08/2019		2019,02
Assistant Faculty Incharge	Examination and Evaluation	03/12/2019	02/08/2020	08
Lab Incharge	Concrete Technology Lab	10/08/2019		2020,,02
Assistant Faculty Incharge	Result Processing	19/11/2020		08

Expert Talks

Title	Place	Year	Description
Vibration Based Health Monitoring of Frame Structures	ABES Engineering College, Greater Noida	2018	Faculty Development Program

Professional Activities

Name of Activity	Role	Duration	Organization
Proof Checking of Buildings	Dr. Sauvik Banerjee, IIT Bombay	Dr. Joy Pal	300000
Proof Checking of Structural Drawing for Construction of Art and Craft Center	Bhalei Mata Chamba	Dr. Joy Pal & Dr. P Kumar	163024
Concurrent Evaluation and Quality Monitoring	IPH, Himachal Pradesh	Dr. Joy Pal, Dr. P Kumar, Dr. V Shankar, Dr. V K Bansal, Dr. S. Biswas, Dr. J. Tripura	3164912
Proof checking of design and drawing of bridge across Rawli River	Irrigation Dept. UttaraKhand	Dr. Joy Pal, Dr. P Kumar	380000
SSC for Aerial NLD Route	RJIL	Dr. Joy Pal, Dr. P Kumar	47200
Proof checking and Recommendations for passing of overweight cargo over Wangtoo Brodge	L&T	Dr. Joy Pal, Dr. P Kumar & Dr. U.K Pandey	472000
Proof checking of structure design of culvert	Garg and Garg	Dr. Joy Pal, Dr. P Kumar	11800
Proof Checking of Hydraulic structure	Dogra construction	Dr. Joy Pal, Dr. V Shankar	139033
Material Testing	Many consultants	Dr. Joy Pal	100000
Proof Checking of RCC Retaining wall	Garg and Garg	Dr. Joy Pal, Dr. P Kumar	131517
Assessment of structure for strengthening of Sangana Bridge	GE T&D India Ltd.	Dr. Joy Pal, Dr. U K Pandey, Dr. K nallashivam	150000
Proof checking of superstructure of 75m span bridge over river Beas at Nehru Kund	HPPWD	Dr. Joy Pal, Dr. U K Pandey, Dr. P. Kumar, Dr. A K Roy	180000

Courses Organized

Category	Type	Title	Venue	From	To	Designation
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Date :

Place :

Signature