

**UNIVERSITY INSTITUTE OF ENGINEERING & TECHNOLOGY
PANJAB UNIVERSITY, CHANDIGARH - 160014**

FACULTY PROFILE



1. **Name** : Manu Sharma
 2. **Designation** : Associate Professor
 3. **Date of Birth** : 06.04.1976
 4. **Contact Number** : 9888509778
 5. **E-mail id** : manu@pu.ac.in

6. Educational background

Degree	Institute Name	Year of Passing
B.E/B.Tech/B.Sc	REC Hamirpur	1998
M.E/M.Tech/M. Sc.	IIT Delhi	1999
M. Phil		
Ph. D	IIT Delhi	2004

7. Professional background

Designation	Institute Name	Duration
Lecturer	UIET, PU, Chd	09 years
Associate Professor	UIET, PU, Chd	02 years

8. Main area of work: Active vibration control, structural dynamics, control.

9. Achievements:

Achievements	Number
Papers published in International Journal	11
Papers published in national Journal	02
Papers published in International conference	05
Papers published in national conference	02
Papers presented in International/National conferences	04
Research Projects	01
Ph. D/M.E/M.Phil Supervision	02
Books/Book Chapters Published	02
FDPs/STTPs Organized	01
International/ National Conferences/Technical Event Organized	04
Participation in International/ National Conferences/symposium etc.	04

Professional recognition, awards, fellowships received:

- Second prize consisting of NI instruments worth 2000 US \$ in a national level paper contest "VI Mantra 2002".
- Received Labview 10 user license, DAQ card cable and accessories worth Rs.7.5 Lakhs from National Instruments
- Was member of elite 'Advisory council' of 'LG electronics'. This council is made to help 'LG' in changing the face of business in India

International Journals:

SN	Title with page nos	Publication Type	Year	Impact factor
1	Optimization Criteria for Optimal Placement of Piezoelectric Sensors and Actuators on a Smart Structure:	Journal of Intelligent Material, Systems and Structures	2010	2.172

	A Technical Review. Vol 21, pp 1227-1243.			
2	Mathematical modeling of actively controlled piezo smart structures : a review. Vol 8, No 3, pp 275-302	International Journal. Smart Structures and Systems	2011	1.430
3	Active vibration control of a smart plate using a piezoelectric sensor-actuator pair at elevated temperatures.	International Journal. Smart Materials and Structures	2011	2.449
4	Active structural vibration control: robust to temperature variations.	International Journal. Mechanical Systems and Signal Processing.	2012	2.465
5	Fuzzy sliding mode control of plate vibrations. Vol 17 (2010), Issue 1, pp 71-92	International Journal. Shock and Vibration.	2010	0.535
6	A review of modeling and control during drilling of fiber reinforced plastic composites. Vol 47, pp 118-125	International Journal. Composites Part B	2013	2.602
7	PID control of torque during drilling in GFRP laminates	International Journal. Multidiscipline Modeling in Materials and Structures 10 (3), 346-361	2014	Cites per doc 0.59
8	Optimal control during drilling in GFRP composite laminates	International Journal. Multidiscipline Modeling in Materials and Structures 10 (4), 611-630	2014	Cites per doc 0.59
9	Modal control of a plate using a fuzzy logic controller	Smart materials and structures 16 (4), 1331	2007	2.449
10	Fuzzy logic based modal space control of a cantilevered beam instrumented with piezoelectric patches	Smart materials and structures 14 (5), 1017	2005	2.449

International Conferences:

SN	Title with page nos	Publication Type	Year
1	Modelling of Thrust Force during Drilling of Fibre Reinforced Plastic Composites	Procedia engineering	2013
2	Modeling and PID control of thrust force during drilling in composite laminates	International conference. Recent advances in Engineering and Computational Sciences (RAECS)	2014
3	Fuzzy logic based vibration control of a single degree of freedom system	International conference. Recent advances in Engineering and Computational Sciences (RAECS)	2014
4	Techniques for creating mathematical model of structures for active vibration control	International conference. Recent advances in Engineering and Computational Sciences (RAECS)	2014
5	Theoretical and Experimental Investigation into 'Efficient Modal Control Strategies' as Applied on a Plate Structure	10th International Conference on Vibration Engineering and Technology of Machinery(VETOMAC)	2014
6	Theoretical and experimental investigation of fuzzy logic based	ASME 2003 Design engineering technical conferences, Chicago,	2003

	active vibration control of beams	Illinois USA, September 2-6, 2003	
7	Fuzzy logic based active vibration control of beams using piezoelectric patches	International Symposium of Smart Materials and Structures, Proceedings of ISSS-SPIE-2002, IISc Bangalore, July 17-19, 2002	2002
8	Control of torque during drilling in composite laminates	Twenty third International Conference on Processing and Fabrication of Advanced materials, 5-7 december, 2014	2014

National Journals:

SN	Title with page nos	Publication Type	Year
1	Dynamic analysis of bowed rotors, vol 2(2), pp 128-141	Journal of Vibration Engineering and Technologies	2003

Book Chapters:

SN	Title of the Book chapter	Publication type
1	Optimal Control of Drilling Process for Hole Making in Fiber Reinforced Plastics: A Review	In book: Manufacturing Engineering: New Research, Chapter: 4, Publisher: Nova Science Publishers, Editors: Prof. J. Paulo Davim
2	Theoretical and Experimental Investigation into 'Efficient Modal Control Strategies' as Applied on a Plate Structure	In book: Vibration Engineering and Technology of Machinery. In series Mechanisms and Machine Science. Editor: J K Sinha