

## Profile Page



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### **Research Interests :**

Active noise control, Active structural-acoustic control, Active vibration control, Vibro-acoustics, Finite element methods, Experimental modal analysis, Finite element model updating, Mechanical vibrations

### **Other Profile Links :**

#### **Google Scholar Link :**

Ashok Kumar Bagha [Click Here](#)

#### **Personal Web Link :**

Dr Ashok Kumar Bagha [Click Here](#)

### **Journal Publications :**

Year	Journal	Publication
2018	Materials Today: Proceedings 5 (2018) 27912–27918.	• Varun Panwar, Prashant Gupta, Ashok K Bagha, Nitin Chauhan, “A Review on studies of Finite Element Model Updating and Updating of Composite Materials”,
2018	Materials Today: Proceedings 5 (2018) 28364–28373	• Rameshwar Cambow, Manpreet Singh, Ashok K Bagha, Harpreet Singh, “To compare the effect of different level of self- lubrication for bearings using statistical analysis of vibration signal”,

2017	Journal of Smart Structures and Systems, An International Journal 20 (3), 2017, 273-283	• Ashok K Bagha and S V Modak, “Feedback control strategies for active control of noise inside a 3-D vibro-acoustic cavity”,
2017	Journal of the Low Frequency, Noise Vibration and Active Control , 36 (3), 2017, 261-276	• Ashok K Bagha and S V Modak, “Active structural-acoustic control of interior noise in a vibro-acoustic cavity incorporating system identification”,
2017	International Journal of Mechanical Engineering and Technology, 18 (7), 2017, 1225-1230	• Tharun Kumar and Ashok K Bagha, “Choice of optimal location of collocated piezoelectric sensors on steel plate using mode shapes”,
2015	Journal of the Acoustical Society of America (JASA), 138 (1), July 2015, 11–21	• Ashok K Bagha and S V Modak, “Structural sensing of interior sound for active control of noise in structural-acoustic cavities”,
2015	Journal of the Acoustical Society of India (JASI), 42 (2), April 2015, 84– 94	• Ashok K Bagha and S V Modak, “Feedback Control strategies for Active Structural-Acoustic Control of Interior Noise”,

### Conference Publications :

Year	Conference	Publication
2018	Proceedings of the 19th ISME conference on Advances in Mechanical Engineering, held at NIT Jalandhar, December 20-22, 2018	Ankush Kesharwani, Raman Bedi and A K Bagha, “Natural Fiber Composites for Sound Reduction: A Review”
2018	Soft Computing: Theories and Applications (SOCTA) - 2018, held at NIT Jalandhar, 21-23 December 2018	Ashok Kumar Bagha, " An Adaptive Feedforward filtered-x LMS Algorithm for Interior Noise Control – A short review"
2017	Proceedings of ICCAE-17, Feb. 18-21, 2017, Sydney, Australia, 264-268, ACM Digital Library, 264-268	• Ashok K Bagha and S V Modak, “Active structural-acoustic control of interior noise using direct output feedback-an experimental study”,
2017	IOP Conf. Series: Materials Science and Engineering 225 (2017), 1-7	• Rahul Samyal and Ashok K Bagha, “Optimal location of piezoelectric patch on composite structure using viewing method”,
2017	International Conference on Advances in Materials, Manufacturing and Applied Sciences (ICAMMAS)-2017, held at Sri Sai Ram Institute of Technology, Sai Leo Nagar, West Tambaram, Chennai, India, 30-31 March 2017	• Rahul Samyal, Sukhjeet Singh and Ashok K Bagha, “Modal analysis of composite panel at different fiber orientations”,
2015	Proceedings of the 17th ISME conference on Advances in Mechanical Engineering, held at IIT Delhi, New Delhi, October 3-4, 2015	• Ashok K Bagha and S V Modak, “Active structural-acoustic control of interior noise using direct output feedback”,
2014	Proceedings of the 32nd International Modal Analysis Conference (IMAC-XXXII), A Conference and Exposition on Structural Dynamics, Orlando, Florida, USA, (3-6 February), 2014, 221-241	• Ashok K Bagha and S V Modak, “Virtual Sensing of Acoustic Potential Energy through a Kalman Filter for Active Control of Interior Sound”,
2014	Proceedings of INTER-NOISE 2014, 43rd International Congress on Noise Control Engineering, Melbourne, Australia, 16-19 November 2014	• Ashok K Bagha and S V Modak, “ A study on the influence of model uncertainties on the performance of a feedback control based ASAC system”,

### Research Projects :

Role	Project Type	Title	Funding Agency	From	To	Amount	Status	Co-Investigator
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PI	Internal Sponsored	Design and Fabricate a Composite Window to Mitigate the Urban Traffic Noise in dwellings	TEQIP-III, Dr B R Ambekdar National Institute of Technology Jalandhar	2018	2019	100000	In Progress	
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### Research Supervised :

Scholar Name	Research Topic	Status	Year	Co-Supervisor
Ankush Kesharwani	Experimental study to measure the acoustic properties of natural fiber composite materials	In Progress	2018-2019	Dr. Raman Bedi
Raushan	Microwaves in the material processing	In Progress	2018-2019	Dr. Dinesh Kumar Shukla
Mr Rahul Samyal	Microwaves in material processing	In Progress	2018	Dr Raman Bedi