



## National Institute of Technology, Tiruchirappalli: Performa for CV of Faculty/ Staff Members

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### 9. Academic/Administrative Responsibilities within the University

Position	Faculty/Department/Centre/Institution	From	To
anti-ragging committee representative	Department of Civil Engineering	June, 2022	ongoing

### 10. Academic/Administrative Responsibilities outside the University - NA

Position	Institution	From	To

### 11. Awards, Associateships etc. NA

Year of Award	Name of the Award	Awarding Organization

### 12. Fellowships - NA

Year of Award	Name of the Fellowship	Awarding Organization	From (Month/Year)	To (Month/Year)

### 13. Details of Academic Work

(i) Curriculum Development

(ii) Courses taught at Postgraduate and Undergraduate levels

**PG** – Structural Dynamics; Bridge Engineering; CAD in Structural Engineering

**UG** – Advanced Structural Analysis; Elementary Structural Dynamics; Engineering Mechanics; Basics of Civil Engineering

(iii) Projects guided at Postgraduate level - **6**

(iv) Other contribution(s)

### 14. Details of Major R&D Projects – **submitted: 4 (2 as PI, 2 as co-PI)**

Title of Project	Funding Agency	Duration		Status
		From	To	Ongoing/ Completed

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**15. Number of PhDs guided – One (ongoing)**

Name of the PhD Scholar	Title of PhD Thesis	Role (Supervisor/ Co-Supervisor)	Year of Award

**16. Participation in Workshops/ Symposia/ Conferences/ Colloquia /Seminars/ Schools etc. (mentioning the role)**

Date (s)	Title of Activity	Level of Event (International/ National/ Local)	Role (Participant/ Speaker/ Chairperson, Paper presenter, Any other)	Event Organized by	Venue
December 18 – 20, 2019	Advanced course on Wind Loads and Effects on Structures	National	Participant	CSIR-SERC	Chennai
November 3 – 9, 2017	International Mechanical Engineering Congress and Exposition (IMECE2017)	International	Presenter, Session Co-organizer (session 5-6-2: Structural Control)	American Society Of Mechanical Engineer (ASME)	Tampa, Florida, USA
June 22 – 26, 2015.	Short term course on Principles of Vibration Control	National	Participant	IEST Shibpur	Shibpur, Howrah
August 11 – 22, 2008	Induction Level Training on Thermal Power Plant	National	Participant	National Power Training Institute	Faridabad

**17. Workshops/ Symposia/ Conferences/ Colloquia/Seminars Organized (as Chairman/ Organizing Secretary/ Convenor / Co-Convenor) - NA**

Title of Activity	Level of Event (International/ National/ Local)	Date (s)	Role	Venue

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18. Invited Talks delivered - NA

Topic	Date	Inviting Organization

19. Membership of Learned Societies

Type of Membership (Ordinary Member/ Honorary Member / Life Member)	Organization	Membership No. with date
Life Member	The Institution of Engineers (India)	M-1672120 03 Dec 2019

20. Academic Foreign Visits

Country	Duration of Visit	Programme
USA	November 3 – 9, 2017	ASME's International Mechanical Engineering Congress and Exposition (IMECE2017)

21. Publications

(A) Refereed Research Journals:

Author(s)	Title of Paper	Journal	Volume (No.)	Page numbers	Year	Impact Factor of the Journal (Optional)
A. Baxy, <b>K. K. Bera</b> , R. Prasad, A. Banerjee,	Enhanced attenuation band in active 2D mass-in-mass metamaterial using static output feedback	Waves in Random and Complex Media	0(0)	1-22	2022	
<b>K. K. Bera</b> , N. K. Chandiramani,	An element dependent multiple lag rational function approximation for aeroelastic analysis of cable bridge	Applied Mathematical Modelling	105	95-113	2022	
<b>K. K. Bera</b> , A. Banerjee	Ultra-wide bandgap in active metamaterial from feedback control	Journal of Vibration and Control	0(0)	1-10	2021	

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<b>K. K. Bera,</b> N. K. Chandiramani,	Controlling flutter of a cable-stayed bridge with output feedback driven winglets	Journal of Wind Engineering & Industrial Aerodynamics	206	104372-1-13	2020	
<b>K. K. Bera,</b> N. K. Chandiramani,	Aeroelastic flutter control of a bridge using rotating mass dampers and winglets	Journal of Vibration and Control	26 (23–24)	2185-2192	2020	
<b>K. K. Bera,</b> N. K. Chandiramani,	Flutter control of bridge deck using experimental aeroderivatives and LQR-driven winglets	ASCE Journal of Bridge Engineering	24(11)	04019100-1-13	2019	
<b>K. K. Bera,</b> N. K. Chandiramani,	Bridge deck flutter control using winglets and static output feedback	ASME Journal of Dynamic Systems, Measurement, and Control	140 (8)	081008-1-13	2018	

**(B) Conferences/Workshops/Symposia Proceedings**

Author(s)	Title of Abstract/ Paper	Title of the Proceedings	Page numbers	Confer ence Theme	Venue	Year
<b>K. K. Bera,</b> N. K. Chandiramani	Active control of flutter of a cable-stayed bridge using winglets	<i>64th Congress of Indian Society of Applied and Theoretical Mechanics (ISTAM 2019),</i>	1-12		IIT Bhubaneswar	December 9-12, 2019.
<b>K. K. Bera,</b> N. K. Chandiramani	Flutter control of a cable-stayed bridge using winglets and output feedback	<i>The 25th International Congress on Sound and Vibration (ICSV25)</i>	631-638		Hiroshima, Japan	July 8-12, 2018.
<b>K. K. Bera,</b> N. K. Chandiramani	Flutter suppression of bridge deck section using winglets and rotating mass damper	<i>The 25th International Congress on Sound and Vibration (ICSV25)</i>	639-646		Hiroshima, Japan	July 8-12, 2018.
<b>K. K. Bera,</b> N. K. Chandiramani	Flutter suppression of bridge deck section with controllable winglets using output feedback	<i>Proceedings of the ASME International Mechanical Engineering Congress and Exposition (IMECE2017)</i>	V04BT05A044		Tampa, Florida, USA	November 3-9, 2017

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<b>K. K. Bera,</b> N. K. Chandiramani	Flutter suppression of bridge deck section with controllable winglets driven by LQR control	<i>Proceedings of the ASME International Mechanical Engineering Congress and Exposition (IMECE2 017)</i>	V04BT0 5A049		Tampa, Florida, USA	November 3-9, 2017
<b>K. K. Bera,</b> N. K. Chandiramani	Time domain flutter speed analysis of cable stayed bridge	<i>Proceedings of 12th International Conference on Vibration Problems (ICOVP 2015)</i>	917-927		IIT Guwahati, Assam, India	December 14-17, 2015.

**(C) Books & Monographs - NA**

Author(s)	Title of Book/Monograph	Name of Publishers	Year of Publication	ISSN/ISBN Number