Curriculum Vitae



Brief Profile:

Dr. Kamal Krishan Bera presently working as Assistant Professor, Department of Civil Engineering at NIT Tiruchirappalli. Specialization in Structural Engineering with research interests largely direct towards the broader areas of structural dynamics and vibration control.

1. Name Kamal Krishna Bera

2. Designation: Assistant Professor

3. Office Address: C11, First floor, Department of Civil

Engineering, NIT Trichy

4. Telephone (Direct) (Optional): 9301481280

Telephone: Extn (Optional):

Mobile (Optional):

5. Email (Primary): kamal@nitt.edu Email (Secondary): kbera27@gmail.com

6. Field(s) of Specialization: Structural Dynamics and Vibration

Control

7. Employment Profile

Job Title	Employer	From	To
Assistant Professor (Teaching, Research)	NIT Trichy	May, 2020	ongoing
Assistant Manager (Execution of Civil Works at Thermal Power Plant)	Reliance Infra. Ltd.	August, 2008	May, 2012

8. Academic Qualifications (From Highest Degree to High School):

Examination	Board / University	Year	Division/	Subjects
			Grade	
PhD	IIT Bombay	2019	9.36	Structural Engineering
MTech	IIT Roorkee	2014	9.79	Structural Dynamics
BTech	Jadavpur University	2008	8.64	Construction Engineering
Higher Secondary	West Bengal Council of Higher Secondary Education	2004	First Division (82.4%)	General stream courses

9. Academic/Administrative Responsibilities within the University

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

10. Academic/Administrative Responsibilities outside the University - NA

Position	Institution	From	То

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	From	То
		Organization	(Month/Year)	(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 Aganay	Dura	ation	Status
Title of Project	Funding Agency	From	То	Ongoing/ Completed

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

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

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

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

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

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

18. Invited Talks delivered - NA

Topic	Date	Inviting Organization

19. Membership of Learned Societies

Type of Membership (Ordinary	Organization	Membership No. with	
Member/ Honorary Member / Life		date	
Member)			
Life Member	The Institution of	M-1672120	
	Engineers (India)	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, K.	Enhanced attenuation	Waves in	0(0)	1-22	2022	
K. Bera, R.	band in active 2D	Random and				
Prasad, A.	mass-in-mass	Complex				
Banerjee,	metamaterial using	Media				
	static output feedback					
K. K. Bera,	An element dependent	Applied	105	95-113	2022	
N. K.	multiple lag rational	Mathematical				
Chandiramani,	function approximation	Modelling				
	for aeroelastic analysis					
	of cable bridge					
K. K. Bera,	Ultra-wide bandgap in	Journal of	0(0)	1-10	2021	
A. Banerjee	active metamaterial	Vibration and				
	from feedback control	Control				

K. K. Bera, 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	
K. K. Bera, 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	
K. K. Bera, 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	
K. K. Bera, 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	Title of the	Page	Confer	Venue	Year
Author(s)	Abstract/ Paper	Proceedings	numbers	ence	v enue	1 Cai
	Austracii Fapel	Flocedings	numbers	Theme		
K. K. Bera,	Active control	64th Congress of	1-12	Theme	IIT	December 9-12,
N. K.	of flutter of a	Indian Society of			Bhubaneswar	2019.
Chandiramani	cable-stayed	Applied and			biluballeswar	2019.
	bridge using	Theoretical				
	winglets	Mechanics (ISTAM				
	8	2019),				
K. K. Bera,	Flutter control	The 25th	631-638		Hiroshima,	July 8-12, 2018.
N. K.	of a cable-stayed	International			Japan	
Chandiramani	bridge using	Congress on Sound				
	winglets and	and				
	output feedback	Vibration (ICSV25)				
K. K. Bera,	Flutter	The 25th	639-646		Hiroshima,	July 8-12, 2018.
N. K.	suppression of	International			Japan	
Chandiramani	bridge deck	Congress on Sound				
	section using	and				
	winglets and	Vibration (ICSV25)				
	rotating mass					
	damper					
K. K. Bera,	Flutter	Proceedings of the	V04BT0		Tampa,	November 3-9,
N. K.	suppression of	ASME International	5A044		Florida, USA	2017
Chandiramani	bridge deck	Mechanical				
	section with	Engineering				
	controllable	Congress and				
	winglets using	Exposition (IMECE2				
	output feedback	017)				

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

(C) Books & Monographs - NA

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