

Curriculum Vitae

Kamal Bhattacharya

Post: Professor of Civil Engineering, NIT Durgapur – 713209. DOB: 22/09/1960

Specialization: i) Soil Mechanics and Foundation Engineering ii) Earthquake Engineering

1. Interest in Communication:

(a) Paper publications in National/International Journals (SCI/SCOPUS indexed journals)

Sl.No.	Title of paper	Author(s)	Name of the	Vol. &Year	Pages
1	Edge Stresses of Plain Concrete Pavements'	Bhattacharya, K	IE (I) Journal	CV/2, 85, August,2004,	, pp 88-92.
2	Nonlinear Response of Transverse Joints of Air	Bhattacharya, K	ASCE,	Mar-Apr 2000, 126/2,	pp 168-177
3	Dynamic Response of Ferrocement-Reinforced Concrete	Bhattacharya, K.; Pal, D.K.; Chandrasekharan,	J. Ferrocement,	27,3,July,1997,	pp 193-208
4	Behaviour of Composite Large Size Ferrocement Ground	Bhattacharya, K.; Pal, D.K.; Chandrasekharan,	J. Ferrocement	27,2,April,1997	pp 85-101

Conference/Workshops:

Paper publications in Conference (SCI/SCOPUS/Web of Science/Internationally renowned

Conference)

Sl.No.	Title of paper	Co-author(s), if any	Name of the Conference	Date
1	NONLINEAR SEISMIC ANALYSIS OF NUCLEAR CONTAINMENT WITH SOIL-STRUCTURE INTERACTION: STUDY ON STRESSES AND DAMAGE CRITERIA	Sourav Bhattacharjee (RS) and Kamal Bhattacharya (Prof.)	17th Symposium on Earthquake Engineering,- 2022	Paper No. 376, Roorkee, India

2	Soil-structure Interaction Effect on a Multistoried Building with Pile Foundation Considering Linear Approach	Banerjee, S(RS)., Bhattacharya, K. (Prof.),	17th Symposium on Earthquake Engineering,- 2022	Paper No. 483, Roorkee, India
3	EARTHQUAKE RESPONSE OF 3D ASYMMETRIC BUILDING WITH INFILL	Abhijit Chakraborty (RS), Kamal Bhattacharya and V. A. Sawant (Asso. Prof)	Indian Geotechnical Conference 2019 GEOINDUS	PP. 2418 - 2431, 19-21 Dec. SVNIT
4	Linear EQ analysis of Multistory Building on Raft Foundation including	S.Mondal (M.Tech Stud- 2016-18), K.Bhattacharya	Indian Engg. Congress, Udaipur 2018	21-23 Dec.. 2018 CV/194/46
5	Response of Multistorey Building on Raft and Pile	Sayanti Banerjee (M.Tech Stud, 2016-18), K.	Indian Engg. Congress, Udaipur 2018	21-23 Dec. 2018.
6	Slope Stability analysis by Slip Circle Method and FE methods	Anasuya Goswami (M.Tech Stud, 2015-17), K. Bhattacharya	Recent Advancement of Geotechnical Investigation and Ground Improvement, NITS Getech. Soc. NIT	14 th -15 th May 2017. 89-93
7	Behaviour of Two-Span Continuous Steel Box RC Deck Composite Bridges	Saswati Dey and K. Bhattacharya	ICSEM , NIT Rourkela, 20 th - 22 nd December	20 th -22 nd December 2013. ID No. 039
8	BEARING REACTIONS OF A TWO-SPAN CONTINUOUS STEEL BOX-RC DECK COMPOSITE BRIDGES UNDER EARTHQUAKE	Saswati Dey and K. Bhattacharya	YRGS 15 th – 16 th October 2013, MNIT Jaipur	15 th – 16 th October 2013. Pp. 294-303. <u>Participation Certificate</u>
9	Measured and Modelled Response of a masonry Wall Under out-of-plan	Bhattacharya, K. Gaur, A. Charaborty, I	14 th SEE, Vol 2, 2010, IIT Roorkee	17-19 December- 2010. 787-792
10	Ductility Demand of R.C. Columns Subjected to Earthquake Excitation	Bhattacharya, K., Kumar, R.R	Proc. National Conference on Advance Computing Techniques in Civil Engineering, St. Peter's College, Avadi, Chennai 1 st	
11	Soil-Pavement-Interaction and Load Transfer in Dowelled Transverse	Bhattacharya, K	Indian Geotechnical Conf.2006, IIT Chennai, DEC. 14-16 th .	
12	Dynamic Response of R.C. Portal and its Ductility	Bhattacharya, K, Sunny.R	ICET 2003, KIIT, Bhubaneswar, Int. Conf. 19 th –21 st Dec. 2003.	

13	Fundamental Time – Periods of Plane Frames (R.C.) under Elastic	Bhattacharya, K	12 th SEE, Vol 2, 2002, IIT Roorkee,	Dec. 2002, pp. 954-959.
14	' Ferrocement, a potential Energy- Friendly Construction Material'	Bhattacharya, K	Seminar on Environmental Aspect of Engineering Practices, B.I.T. Jhashi,	17-18 April, 1998, pp 110- 118.

2. Teaching Ability

Year	Name of Course	No.of hrs./week	Credits
2022-23	A) Finite Element Method 2022-23. CE-9064 PG ODD (EL)	03	03
	B) Geotechnical Earthquake Engineering CE-1013, PG 2022-23, ODD (Core)	02	04
	C)Computational Class (Abaqus) 2022-23 PG-Sessional	04	04
	D) Soil Dynamics And M/C Foundation 2022-23, PG (EL)	03	03
2018-19	a)FEM-CE 9043, 2018-19, ODD	04	04
	b)Geotechnical EQ Engg. CE1013, 2018-19, ODD	04	04
	c) Soil Mechanics, CE 503, ODD	03	03
	d)Machine Foundation, CE-2011, EVEN	04	04
	e) Foundation Engineering, CE-602, EVEN	02	1.5
2017-18	a) FEM-CE 9043, 2017-18, ODD	04	04
	b)Geotechnical EQ Engg. CE1013, 2017-18, ODD	04	04
	c)Design of Steel Structure, CE-701, 2017-18, ODD	02	02
	d)Machine Foundation, CE-2011, 2017-18, Even	04	04
	e)Soil Mechanics, CE 403, 2017-18, Even	03	03
	f)RC Design-II, CE-601, 2017-18, Even	02	1.5

3. Guiding Ability:

PG Dissertation Guided: 17

Sl.	Title of the Project	Name of supervisor(s)	Academic Session	Specialization
01.	Response of a T-Beam R.C. Bridge under Blast Loading	Kamal Bhattacharya	2005-07	Structure
02	BEHAVIOUR OF TWO-SPAN CONTINUOUS STEEL BOX RC DECK COMPOSITE BRIDGES, Roll No: 11/CE/415	Kamal Bhattacharya	2011-13	Structure
03	SEISMIC EFFECT OF SOIL-STRUCTURE INTERACTION ON 3D ASYMMETRIC BUILDINGS, 14/CE/462	Kamal Bhattacharya	2014-16	Geo-Technique
04	Seismic Response of a Tall R.C. Chimney with SSI, 14/CE/461	Kamal Bhattacharya	2014-16	GT
05	Slope Stability Analysis of Earthen Dam (15/CE/444)	Kamal Bhattacharya	2015-17	GT
06	EARTHQUAKE RESPONSE OF 3D ASYMMETRIC BUILDING WITH INFILL WALL UNDER SSI (15/CE/445)	Kamal Bhattacharya	2015-17	GT
07	Seepage Analysis in Earthen Dam with Homogeneous Soil with FEM, 15/CE/440	Kamal Bhattacharya	2015-17	GT
08	Characteristic of a 28 Storeyed Building Frame under Dynamic Earthquake Loading including SSI Effects, 15/CE/432	Kamal Bhattacharya	2015-17	GT
09	RESPONSE OF A HIGH RISE G+28 STOREY BUILDING WITH FRAME AND SHEAR WALL INCLUDING FLOOR SLAB UNDER EARTHQUAKE EXCITATION SUPPORTED <u>ON PILE</u> (16/CE/4201)	Kamal Bhattacharya	2016-18	GT
10	Linear and Non-Linear Analysis of Multi-Storey Building on Raft Foundation including SSI, 16/CE/4213	Kamal Bhattacharya	2016-18	GT
11	SLOPE STABILITY ANALYSIS OF EARTHEN DAMS USING <u>GEOTEXTILE</u> (Roll no-16CE/4204)	Kamal Bhattacharya	2016-18	GT
12	NON-LINEAR ANALYSIS OF MULTI-STOREY BUILDING ON RAFT Foundation WITH SOIL-STRUCTURE INTERACTION (17/CE/4213)	Kamal Bhattacharya	2017-19	GT
13	SSI of Multi-Storeyed Building over Pile Foundation (by Sub-Structure Technique) (17/CE/4214)	Kamal Bhattacharya	2017-19	GT

14	SLOPE STABILITY ANALYSIS OF EARTHEN DAM including Core and Drainage Facility (17/CE/4215)	Kamal Bhattacharya	2017-19	GT
15	SEISMIC ANALYSIS OF WALNUT CREEK BUILDING ON RAFT AND ISOLATED FOUNDATIONS CONSIDERING SOIL STRUCTURE INTERACTION BY 3D FEM MODELLING (18CE4201)	Kamal Bhattacharya	2018-20	GT
16	Seismic Response of a Nuclear Setup by including SSI (by SubStructure Technique)(18/CE/3214)	Kamal Bhattacharya	2018-20	GT
17	SOIL-STRUCTURE INTERACTION OF A MULTISTORIED BUILDING OVER PILE FOUNDATION UNDER SEISMIC LOADING USING FINITE ELEMENT SOFTWARE (18/CE/420)	Kamal Bhattacharya	2018-20	GT

Along with the above UG Dissertation Guided: 27 Since 2006-2007

4. Administrative Involvement

Sl. No.	Details of Responsibility Entrusted	Authority Department/Institute	Duration	
			Starting	Ending
01.	Dean (P & D)	Institute	1-1-2016	31-07-2019
02	Chairman (Internal Finance Committee)	Institute	July, 2020	December-2021
03	Chairman (Obsolence disposal Committee)	Institute	01-07-2017	2020
04	Head, Department of Civil Engg.	Institute	2003	2005
05	Laboratory Incharge; Soil Mechanics and Foundation	HOD, CED	July-1999	July-2011
06	Chairperson (Maintenance & Campus Facility and Planning)	Institute	October-2021	Continuing

Members:

Sl. No.	Details of Responsibility Entrusted	Authority Department/Institute	Duration	
			Starting	Ending
01	Convener of Civil works	Institute	22-07-2006	17-09-2014
02	Member (IFC)	Institute	Mid-2016	June-2020
			January-2022	Continuing
03	Chairman Furniture Purchase Committee	Institute	04-10-2018	31-07-2019

04	Chairman PMQCC	Institute	08-11-2018	31-07-2019
05	Nodal Officer of Civil Work- TEQIP-I	2003	2006	Nodal Officer
06	Prof. in Charge, Construction	Institute	May-2000	Aug-2005

5. Membership of Professional Bodies:

Sl.No.	Name of Professional body	Membership No. with validity
1	IE (I) FIE	FELLOW F110212-1, dtd. 13-11-2004
2	ISSET Indian Soc. Of Earthquake Technology	Life Member – LM 1148, dtd. 28-08-2003

6. Academic Qualification

Exam./ Degree	Specialization	College/Institute	University	%of Marks/CGA	Class/ Grade	Year
Class XI	Science	Raniganj MPS school	WB Board of	66.4	1st	1976
UG	Civil Engg	IIT Kharagpur	IIT	68.6	1st	1982
PG	SMF	IIT Kharagpur	IIT	@ 70	-	1984
Ph.D.	Earthquake Engineering	IIT Roorkee, (University of Roorkee)	IIT	-	--	1996

7. Interaction with External Academic World:

Seminars/Short Term Courses/Summer Schools/Winter School

Sl.No.	From	To	Institute/Organization	Sponsored by	Name of the Course
1	2 nd – Dec. 1990	15 th Dec 1990	IEST, Shibpur	CED	Behaviour of Piles under Static and Dynamic Loadings, 14 days

2	22 nd June – 1993	6 th July, 1993	IIT, Roorkee	EQD	Earthquake Resistant Design of Buildings- 15days
3	23 rd Dec.1996	3 rd January, 1997	IIT Kharagpur	CED	High Rise Structures- 12 days
4	18 th Feb. Feb	1 ST March 1997	IIT Roorkee	EQD	Computational Modelling for Geodynamic Problems-
5	17/04/1998	18/04/1998	B.I.T. Jhashi	Institute, UP	Environmental Aspect of Engineering Practices- 2days
6	16 Dec. 2002	18 Dec. 2002	IIT Roorkee	EQD	12 th Symposium in Earthquake Engg. 3days
7	9 th May, 2005	13 May - 2005	IIT Gauhati	CED	Earthquake Resistant and Health Monitoring
8	20-03-2006	15-04-2006	IIT Kharagpur	CED	Training Course on NPCBEERM - , 28 days
9	14 Dec 2006.	16 Dec 2006	IIT Chennai	CED	Indian Geotechnical Conf.2006, 3days
10	7 th October – 2008	13 th Oct. 2008	NTU, Singapore	Singapore Colombo Plan Staff College	Enhancing Pedagogy Skills for Teacher
11	17-Dec-2010	19-Dec-2010	IIT Roorkee	EQD	14 th Symposium in Earthquake Engg, 3days
12	12 Dec. 2011	16 Dec 2011	ISM Dhanbd	DST sponsored	Ethics and Values in Science- 5 days
13	10-06-2013	14-06-2013	NPIU-NOIDA	IIM Lucknow	Management Capacity Enhancement for
Sl. No.14 to-18	2003-2004	5 workshop attended	NPIU, NOIDA and Lucknow	NPIU	Project Proposal / Procurement of Goods/ Civil Works- Total 8days

8. Experience

Total Experience	Years:	
Teaching Experience	Years: 37 yrs	PostPh.D.:28 yrs

Research Experience	Years: 6months	
Industrial Experience	13 months	

9. Social Outreach

Acting as a Member of Building Sub-Committee, Durgapur Municipal Corporation (2009 – 2016)