

## Curriculum Vitae

1. Name (Block Letters) : Dr. Nayanmoni Chetia
2. Father's/Mother's/ Husband's Name : Mr. Bhaba Kanta Chetia
3. Current Designation : Professor
4. Department : Civil Engineering Department
5. Institute : Jorhat Engineering College
6. Address for correspondence (with pin code) : **Department of Civil Engineering  
Jorhat Engineering College  
Jorhat -785007 (Assam)**
7. Permanent address( with pin code) : In-front of JEC 1<sup>st</sup> Gate. JEC Rd.  
Garmur, Jorhat -785007 (Assam)
- Telephone No :  
E-mail : Nayanmoni.chetia@gmail.com

8. Educational qualification (HSLC onwards)

Qualification	Board/University	Year of obtaining degree	Specialization
HSLC	SEBA	1987	N/A
HS	AHSEC	1989	Science
B.Tech	Dibrugarh University	1993	Civil Engineering
M.Tech	IIT Guwahati	2006	Structures

9. Research Degree(s):

Degree	Name of the University	Date of award	Title
Ph.D	Gauhati University	02.08.2014	A Cost- Effective Design of Skirted Foundations on soft cohesive ground.

10. Details of Teaching/Research/Academic experience:

Designation	Employer	Period of Service		Scale of Pay
		From	To	
Lecturer	Commissioner Education, Govt of Assam	31-03-1994	11-02-2009	8000/-13500/
Sr Lecturer/Assistant Professor (GP 7000/)	Commissioner Education, Govt of Assam	12-02-2009	12-02-2014	15,600/-39,100/ AGP 7000/
Assistant Professor (GP 8000/)	Commissioner Education, Govt of Assam	12-02-2014	12-02-2017	35780-/ AGP 8000/
Associate Professor	Commissioner Education, Govt of Assam	12-02-2017	12-02-2020	131400-2,17100/
Professor	Commissioner Education, Govt of Assam	12-02-2020	till date	1,44200-

11. Details of publication

## **Journals**

1. Das, B. and Chetia, N. (2020) Experimental studies on Load settlement behaviour of cohesionless soil using Bamboo Grid. *IJAERS.ISSN 2349-6495(P)2456-1908(O) <https://dx.doi.org/10.22161/ijaers.71>*
2. Zaman, S. and Chetia, N.(2018) Comparative Study on the Performance of Concrete using Conventional and Nonconventional Additives. *Journal of Civil Engineering and Environmental Technology*, p-ISSN: 2349-879X; Vol.5, Issue 4
3. Hussain, R. and Chetia, N.(2018) Comparative Study on the Performance of Circular Skirted Foundation on Different Densities of Sand. *Journal of Civil Engineering and Environmental Technology*, p-ISSN: 2349-879X; Vol.5, Issue 4.
4. Borah, M. and Chetia, N. (2018) A Study of Bamboo Reinforced Concrete Beams with different Species of Bamboo.. *Journal of Civil Engineering and Environmental Technology*, p-ISSN: 2349-879X; Vol.5, Issue 4
5. Chetia, N. et al (2017) A study on the strength of concrete using fine aggregates available in the greater Jorhat Region of Assam.
6. Naznin, F. and Chetia, N.(2015) A Review on Control System-Base Isolation and Tuned Mass Damper. *Journal of Civil Engineering and Environmental Technology*, Print ISSN:2349-8404, Online ISSN:2349-879X, VOL.2
7. Konwar, P. and Chetia,N. (2015) A study on effect of different bracing system on an open ground storey building. *International Journal for Scientific Research & Development(IJSRD)*, ISSN(online): 2321-0613 VOL.3 P-ISSN No.2349-9443, VOL-IV, ISSUE-III
8. Das, P. and Chetia, N.(2015) Effect of Micro Silica on Concrete Mixes. *Asian Resonance*, P-ISSN No.097 - 8602
9. Dey, A. and Chetia,N.(2015)Blasting Loading of Structures- A Review. *International Journal of Engineering Science &Research Technology(IJESRT)*, ISSN:2277-9655, VOL.4(12)

## **Book/e-book/book Chapter :**

1. Das,B. and Chetia,N (2022) Experimental studies on Load settlement behaviour of cohesionless soil using Bamboo Grid. *Ground Characterization and Foundations (pp.529-541)*. DOI:10.1007/978-981-16-3383-6\_47

## **Conferences**

1. Dutta,S. and Chetia,N.(2021) Study of traditional tribal houses of Assam. *COSVARD 2021-4<sup>th</sup> International Conference on smart Villages and Rural Development. Guwahati, India.*
2. Das, B. and Chetia, N. (2020) Experimental studies on Load settlement behaviour of cohesionless soil using Bamboo Grid. *Proc of IGC 2020, Visakhapattanam.*
3. Das, B. and Chetia, N. (2020) Bamboo as a resource in making villages smart. *COSVARD 2020-3<sup>rd</sup> International Conference on smart Villages and Rural Development. University of Melbourne, Australlia.*
4. Borkotoky,M and Chetia,N. (2018) Study of Dynamic properties of an Elevated Intzetyetank; *National Conference on Recent Advances in Science and Technology (NCRAS 2018), under TEQIP – III organized by ASTU, Jalukbari, Guwahati, Assam.*
5. Borkotoky,M and Chetia,N. (2018) Dynamic Response of an Elevated Intze tank for different staging configuration; *International Conference on “Civil Engineering Sustainable Development - Opportunities and Challenges”, CESDOC2018, organized by Assam Engineering College, Jalukbari, Guwahati, Assam.*
6. Borkotoky,M and Chetia,N. (2018)Seismic behavior of an elevated intze type tank for different staging configuration; *International Conference on Infrastructure Development (ICID-2018), organized by Jorhat Engineering College, Jorhat, Assam*
7. Borkotoky,M and Chetia,N. (2018) Seismic Response of an Elevated water tank for different Bracing systems; *World Congress on Innovative Research. “Architecture, Civil, Built Environment,Environmental Engineering for Sustainable Development ” (ACBES – 2018) organized by*

*Krishi Sanskriti Publications at Jawaharlal Nehru University, New Delhi; Journal of Civil engineering and Environmental Technology (JCEET); e-ISSN:2349-879X, Vol.5, Issue 7, September 2018.*

8. Sarma, K. and Chetia, N. (2017) Evaluation of Bearing Capacity for skirted foundation on sand. *IGC-2017, IITG*
9. Hussain, R. and Chetia, N. (2017) A Study on Performance Of Circular Skirted foundation on medium dense sand. *IGC-2017, IITG*
10. Borthakur, D. and Chetia, N. (2017) Comparative Study on the behavior of Pendulum and roller type tuned mass damper under harmonic excitation. *ICOVP-2017. IITG and ISIK University, Istanbul, Turkey.*
11. Sarmah, J. and Chetia, N. (2017) An Experimental Study of linear particle Chain Impact damper on dynamic behavior of Shear Frame model. *ICOVP-2017. IITG and ISIK University, Istanbul, Turkey.*
12. Borah, M. and Chetia, N. (2016) A Review of Self-healing concrete. *International conference on Advanced material and Technologies. Dadi Institute of Engineerig and Technology, Vishakhapattanam*
13. Dey, A. and Chetia, N. (2016) The effect of sand on consolidation properties of bentonite. *North-East Students Geo-Congress on advances in Geotechnical Engineering. NITAGARTALA*
14. Dey, A. and Chetia, N. (2016) Experimental Study of Bamboo Reinforced Concrete Beams having various frictional properties. *International Conference of Material, Mineral and Energy, Matrials today jointly by Science direct*
15. Sarma, K. and Chetia, N. (2016) A model study on load displacement behaviour of skirted foundation on sand. *International conference of Civil Engineering in sustainable development CESDOC 16 by Assam Engineering College.*

2. Area of Specialization: Structural Engineering

3. Areas of Research Interest :

- a. Analysis and Design of Earthquake Resistance Multi-storeyed Building.
- b. Study of Earthquake vulnerability in public Buildings
- c. Study in non conventional construction material for Housing and Design Mix.
- d. Study in High Performance Concrete (HPC)

4. M.Tech Dissertation Supervised

Sl No.	Name of Student	Dissertation	Year
1	Farhana Naznin	Bamboo reinforced concrete	2015
2	Pranjal Knowar	A Comparative Study of A G+7 storied Building for Three Different Cases Using SAP2000 and STAAD PRO V8i'	2015
3	Abhijit Dey	A study of bamboo reinforced concrete having various frictional Properties.	2016
4	Dhruba Jyoti Borthakur	A study on the effects of different structural and non structural Elements on dynamic behaviour of building structures	2016
5	Kangkan Sarma	Study on Load-Displacement characteristics of skirted foundation	2016
6	Jyotishman Sarma	A study on the effects of passive damper on dynamic behaviour of Building structures	2017
7	Mukunda Madhab Bora	A study of Bamboo reinforced concrete beams with different species of bamboo	2017
8	Rishma Hussain	Experimental and numerical studies of skirted foundation resting on cohesionless subgrade	2017
9	Shamsuz Zaman	Experimental study on unconventional concrete using locally available admixtures	2018
10	Mriganka Borkotoky	Dynamic behaviour of an elevated Intze type tank	2018
11	Mriganka kumar Dutta Baruah	Study on concrete using various types of fibers	2019

12	Hitesh Kumar	Experimental study on load settlement behaviour of small diameter timber piles under vertical loading	2019
13	Hemonto Kalita	Effect of passive dampers in steel buildings	2020
14	Bipasha das	Experimental study on load settlement behaviour of cohesionless soil using bamboo grids	2020
15	Nipa Paul	A study on improvement of bearing capacity by using Bamboo mats	2021
16	Saurav Jyoti Dutta	Analysis of traditional Tribal houses of Assam	2021

5. PhD Thesis Supervised

Sl No.	Name of Student	Research Topic	Year of registration	Status
1	Upasana Kashyap	Seismic performance study of tuned liquid dampers for response reduction of multystoried structures	2018	Ongoing
2	Anindita Rongpipi	A study on soil reinforcement with bamboo fiber	2020	Ongoing

6.

Sl No.	Details	Organisation	Year
01	Life member of Indian Road Congress	Indian Road congress	From 2019

7. Details of participation in Faculty Development program/STTPs/Training activities

Sl No.	Details of FDP/STTPs/Training activities attended	Organisation	No of days	Year
1	Workshop on Trilingual glossary of Engineering in Assamese to fulfil the objectives of NEP2020	Commission for scientific and Technical terminology	1 week	2022 (April)
2	Workshop on Trilingual glossary of Engineering in Assamese to fulfil the objectives of NEP2020	Commission for scientific and Technical terminology	1 week	2022 (June)
3	Workshop on Trilingual glossary of Engineering in Assamese to fulfil the objectives of NEP2020	Commission for scientific and Technical terminology	1 week	2022 (July)

8. List of short term courses organised/Conferences arranged/Course modules developed

9.

Sl No.	Details of STTP/conferences organised	Venue	Date
1	Organising Secretary of International Conference on Infrastructure Development	Jorhat Engineering College	22 <sup>nd</sup> -23 <sup>rd</sup> Dec, 2018
2	Joint Co-ordinator in STTP on Recent Advances in Civil Engineering	Jorhat Engineering College	27 <sup>th</sup> -31 <sup>st</sup> Oct 2018

**10. Chair in Conference/ Invited Lecture/ Key note speaker:**

Chaired a Session on Springer ESIC Conference 2020, 2<sup>nd</sup> to 4<sup>th</sup> March, National Institute of Technology, Arunachal Pradesh

**11. Details of R&D Projects**

SI No.	Details	Organisation	Year	Status	Amount
	A study on High performance concrete using locally available admixtures	AICTE	2009-2012	PI	
	A Study on Bamboo reinforced Concrete	NEQIP,AICTE,	2017	PI	

**12. Details of Major Consultancy Projects involved**

SI No.	Details	Organisation	Year	Amount
1	Member of TPQAC of Neer Nirmal Pariyogana (NNP)	World Bank and PHED Assam	1017-2019	98,00,000
2	Member, Principal Technical Agency PTA (Mukhya Mantri Paki-path poriyojana	APWD	2022	

**13. Other information:**

SI No.	Details	Organisation	Year
1	Faculty Resource member in Workshop for Earthquake Resistant Design Practice	NICEE and IIT Kanpur	2022
2	Faculty Resource member in Workshop for Earthquake Resistant Design Practice	NICEE and IIT Kanpur	2022