

Name: Dr. Palash Dey
Designation: Assistant Professor
Branch: Civil Engineering



Educational Qualification(s):

Qualification(s)	University
B.E	SIST, Chennai
M.Tech.	NIT Agartala
Ph.D	IIT Guwahati

Experience in years:

Academic: 4

Details:

Sl. No.	Organization	Position Held	Duration	
			From	To
1	ICFAI University Tripura	Assistant Professor	26.04.21	Till today
2	NIT Silchar	Assistant Professor	17.02.17	30.06.20

Industrial: 4

Details:

Sl. No.	Organization	Position Held	Duration	
			From	To
1	ALSTOM Projects India Ltd	Site Civil Engineer	20.08.08	30.11.09
2	Gannon Dunkerley & Co., Ltd	Assistant Engineer	04.06.06	04.08.08

Technical Skills

Programming Languages: MATLAB

Drafting and Simulation Softwares: AutoCAD, SAP, Abaqus and Ansys

List of publications

International Journals

- **PalashDey**, S. Talukdar and D. J. Bordoloi (2016), Multiple crack identification in a channel section steel beam using a combined response surface methodology and genetic algorithm, **Structural Control and Health Monitoring**, Wiley, 23(6), 938-959. **SCI – Journal**.
- **PalashDey**, S. Talukdar (2016), Modal characteristics of cracked thin walled unsymmetrical cross- sectional steel beams curved in plan, **Thin-Walled Structures**, Elsevier, 108, 75-92, **SCI – Journal**.
- **PalashDey**, S. Talukdar (2016), A hybrid approach to detect crack parameters using measured natural frequencies in thin walled angle section beam, **International Journal of Steel Structure**, Springer, 16(1), 163- 175, **SCI – Journal**.
- **PalashDey**, S. Talukdar (2018), A statistics and optimization based approach for crack parameter identification in curved beams, **Structural Health Monitoring**, Sage, Vol. 17(4) 1008–1028, **SCI - Journal**.
- **PalashDey**, V. Akhil and A. I. Laskar (2019), Application of smart phone and model updating technique in structural health monitoring, **Arabian Journal for Science and Engineering**, Springer, 44(5), 4819–4828, **SCI - Journal**.
- **PalashDey**, R. K. Gupta and A. I. Laskar (2019), Numerical and experimental investigations of different crosssectional configuration of plain concrete and CFST short columns under axial compression, **International Journal of Civil Engineering**, Springer, 17(10), 1585–1601 , **SCI – Journal**.
- **PalashDey**, S. Talukdar, Influence of warping on modal parameters of thin-walled channel section steel beam, **Procedia Engineering**, Elsevier, 144 (2016) 52-59.

International Conference

- **PalashDey**, S. Talukdar and D. J. Bordoloi, Crack identification in thin walled channel section beam using combined three level factorial design response surface and genetic algorithm, Paper ID 173, **8th International Conference on Advances in Steel Structures**, July 21 -24, 2015, Lisbon, Portugal.
- **PalashDey**, S. Talukdar, Free vibration analysis of cracked thin walled channel section beam with warping effect, **5th International Congress on Computational Mechanics and Simulation**, Dec 10-13, 2014, SERC, Chennai, pp 363-372, doi: 10.3850/978-981-09-1139-3_028. **(Presented)**
- **PalashDey**, S. Talukdar, Natural frequencies of thin-walled channel section beam with multiple cracks, **6th International Conference on Theoretical, Applied, Computational and Experimental Mechanics**, Dec 29- 31, 2014, Paper Id: 289, Indian Institute of Technology Kharagpur, India. **(Presented)**
- **PalashDey**, S. Talukdar, Health monitoring of an open section thin-walled curved beam based on crack parameters, **2nd International Conference on Fatigue, Durability and Fracture mechanics**, Indian Institute of

Science, Bangalore, India, September 2016, pp. 28. **(Presented)**

- Abhinanda Dilipa, S. Talukdar and **PalashDey**, Simplified theory for long underground cylindrical storage tank, *Proceedings of International Conference on Theoretical, Applied, Computational and Experimental Mechanics*, December 28-30, 2017, IIT Kharagpur, India.
- **PalashDey** and Rohit Kumar Gupta, Numerical study of axially loaded short steel tube columns, International Conference on Infrastructure Development and 21 -22 December 2018, Jorhat Engineering College, Assam. **(Presented)**

National Conference

- **PalashDey**, S. Talukdar, Vibration based damage detection in a channel section steel beam using response surface and genetic algorithm, *Structural Engineering Convention*, 21 -23 December 2016, Paper Id:221, CSIR-SERC, Chennai. **(Presented)**
- V. Akhil, R.K. Gupta, A.J. Das and **P. Dey**, Detection and localization of crack in a beam structure based on static response data, *62nd CONGRESS OF ISTAM 2017*, Osmania University, Hyderabad.
- **PalashDey**, R. K. Gupta and A. I. Laskar, Axial stress-strain model for plain concrete and concrete filled steel tube columns, Proceedings of National Conference on Advances in structural Technologies (CoAST-2019), 1 -3 Feb, 2019, NIT Silchar. **(Presented)**

Book chapter

- **PalashDey**, S Talukdar. (2020) Physical Condition Monitoring of an Angle Section Thin-Walled Curved Beam Based on Non-destructive Assessment. In: Dutta S., Inan E., Dwivedy S. (eds) *Advances in Rotor Dynamics, Control, and Structural Health Monitoring. Lecture Notes in Mechanical Engineering*. Springer, Singapore. https://doi.org/10.1007/978-981-15-5693-7_14
- **PalashDey**, D Das. (2022) Research and implementations of biofiltration for sustainable water treatment. An Innovative Role of Biofiltration in Wastewater Treatment Plants (WWTPs). Elsevier, Pages 217-234. doi.org/10.1016/B978-0-12-823946-9.00020-6

Book published

- **PalashDey**, RP Sharma, Behavior of axially moving nano beams with transverse oscillation, *Lambert Academic Publishing*, Germany, 2012.

Special lecture delivered

Title	Organizers	Workshop on
<i>New innovation technology of building construction with the reference of Global housing technology challenge</i>	<i>Urban Development Department, Government of Tripura and ICFAI University Tripura</i>	<i>Technology and Innovation (Light House Project) under "Awas Par Samvaad", Date: 09/09/2021</i>

Short Term Courses/Workshops Attended

- (1) Successfully completed a short term course on **Master Programme in CAD/CAM (MPCC)** at Central Institute of Plastics Engineering & Technology (CIPET), Bhubaneswar, 27-Jan 2010 to 28-Jun 2010.
- (2) **IEEE MATLAB workshop 2013** held at IIT Guwahati from June 22-23, 2013.
- (3) Workshop on **Introduction to MATLAB** held at IIT Guwahati during March 2013.
- (4) Quality Improvement Programme (QIP) sponsored Short Term Course on **Impact and Blast Resistant Design of Structures** held at IIT Guwahati, Organized by the Department of Civil Engineering during 23rd - 27th March 2015.
- (5) Five Day Online Faculty Development Program (FDP) on **Artificial Intelligence & Machine Learning**, organized by IcfaiTech, ICFAI University, Jaipur in collaboration with IEEE Rajasthan Sub –section during June 28 – July 02, 2021.
- (6) Hands on training on Innovative Tools and Techniques for Effective Teaching and Learning, organized by Civil Engineering Dept. ICFAI University Tripura from 23.08.2021 to 27.08.2021.

Organization of Short Term Courses / Workshop / FDP

Sr. No.	Activity Title	Position	Duration		Duration in Days
			From	To	
1	National Workshop on: <i>The recent trends and developments in the field of Civil Engineering</i>	Convener	09/08/2021	13/08/2021	5

Reviewer

Journal: *Earthquake Engineering and Engineering Vibration, Springer*

International Journal of Civil Engineering, Springer

Conference: *International Conference on Infrastructure Development (2018)*

International Conference on Recent Advances in Civil Engineering (2021)

Research guidance

Number of UG Dissertation Guided: Six (6).

Sl. No.	Title of Dissertation / Project	Year	Students Name
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1	Damage detection in a beam using static response	2022	Sylvia Wahengbam and Brajeshar Debbarma
2	Influence of different sources of water on properties of mortar mixes	2022	Purnashree Saha, Suman Barman, Subhajit Shil and Sagar Deb
3	Influence of different sources of water on properties of concrete	2022	Nayan Deb, Nishan Datta, Bishal Das, Nithin Rudra Paul and Abit Chakma
4	Study of castellated beams with and without stiffeners	2022	Siddhant Das, Sagar Deb, Rajat Dey, Pritam Malla and Sourav Das
5	Effect of construction joints on strength of concrete	2022	Nayan Deb, Nishan Datta, Bishal Das, Nithin Rudra Paul and Bir Bahadur Debbarma
6	Behaviour of multi-storey steel buildings with different bracings system on sloping ground	2022	Hasan Parvaj, Sylvia Wahengbam and Robson Kalai

Number of PG Dissertation Guided: *Three (3).*

Sl. No.	Title of Dissertation / Project	Year	Student Name
1	Dynamic Analysis of Tied Arch Bridges	2018	ArnabJyoti Das
2	Behaviour of CFST and Plain Concrete Short Column under axial load	2018	Rohit Kumar Gupta
3	Modal Updating and Damage Detection Techniques	2018	Akhil V