

Gaurav Chandra Bridhani

IIT Madras, Chennai, Tamil Nadu – India
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Scholastic Achievements

Secured All India Rank 325 (GATE Score 783) in GATE 2016. 2016
School topper with maximum PCM % (96.33%) in CBSE XIIth examination. 2012
Got **Scientist Honor Certificate** from Dept. of Science & Technology, 2010
U.P. Govt. for highest marks in Mathematics in CBSE Xth examination.

Skills

Core Area: Finite Element Analysis, Mechanics of Deformable Bodies, Constitutive Modelling

Computer Languages: C++, MATLAB

Design Packages: ETABS, SAP2000, SAFE

Teaching Experience

GLA University

Mathura, Uttar Pradesh

Assistant Professor (F)

July 2019-Dec 2019

I worked as Assistant Professor teaching Advanced Mechanics to first year post graduates and Steel Design to final year students. I was also the in-charge of Concrete laboratory.

Graphic Era Hill University

Bhimtal, Uttarakhand

Assistant Professor (F)

Apr 2019-July 2019

I worked as Assistant Professor teaching Structural Analysis and Soil Mechanics to second year under graduates.

Education

Indian Institute of Technology Madras

Chennai

Ph. D, Civil Engineering

Jan 2020-Present

Indian Institute of Technology Madras

Chennai

M Tech., Civil Engineering, CGPA-8.52

July 2016-June 2018

College of Technology, G.B.P.U.A. & T.

Pantnagar

B Tech., Civil Engineering, CGPA-8.062, First class with Distinction

July 2012-June 2016

Professional Experience

Public Works Department

Uttarakhand

Intern

Jun 2015-July 2015

I worked as an Intern and monitored Core-cutter testing of Flexible and Rigid Major District Roads of Nainital District. I also supervised the casting of beams supported slab system of single storey multi-purpose Municipal Corporation building

College of Technology Pantnagar

Uttarakhand

Designer

Aug 2015-Oct 2015

I worked under the guidance of Dr. Sanjeev Suman, Assistant Professor, College of Technology, Pantnagar on a project by P.W.D. (Government of Uttarakhand) to design rural flexible pavement using IRC: 37 and rural cement concrete pavement using IRC:58.

Position of Responsibility

Departmental Convocation Coordinator

GLA University, Mathura

Assistant Professor

July 2019-Dec 2019

I was the part of 5 faculty member team coordinating and representing the Civil Engineering Department in the 8th convocation .

FDP Coordinator

Graphic Era Hill University, Bhimtal

Assistant Professor

Apr 2019-July 2019

I volunteered to be the part of 3 faculty member team to conducted the 3 days Faculty Development Program (FDP) sponsored by AICTE.

Placement Team

IIT Madras

PG Placement Coordinator

Apr 2017-Mar 2018

I got elected for the post of placement coordinator. I was a part of 36 member UG-PG placement core team and managed the placements of PG students of Civil Engineering Department.

In my tenure, I accomplished **21%** higher placements among PG student than the predecessor year.

Projects

M.Tech. Project

IIT Madras

A framework to capture moment-curvature relationship of reinforced concrete

June 2017-May 2018

- Studying reinforced concrete using newly developed non-linear non-dissipative implicit constitutive relation.
- Developing a BVP for the sectional analysis of reinforced concrete beam .
- Approximation of stress field using linear polynomial functions.
- Estimating depth of penetration of crack in the cross-section using *Rankine's* theory.
- Using stress jump condition to estimate the stress in reinforcing steel.
- Finally comparing the numerical and experimental moment-curvature data.

B.Tech. Project

College of Technology Pantnagar

GIS based water quality information system for Haldwani city

July 2015-June 2016

- Selection of essential water quality parameters.
- Collection of water sample from 20 different pumping stations of the city.
- Lab testing for various parameters, e.g.- Nitrates, Fluoride, Iron, Total Hardness.
- Geo-referencing the satellite images of the study area with spatial and non-spatial data and building a query system.