

HARI OM TAMRAKAR

M.E., Civil, Structural Engineering
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Objective

To work in a firm with a professional work driven environment where I can utilize and apply my knowledge, skills which would enable me as a fresh graduate to grow while fulfilling organizational goals.

Areas of Interest

Strength of materials, Structural Analysis, Design of Concrete Structures, Design of steel structures, Bridge Engineering, Foundation Engineering, Earthquake Engineering, Dynamic Analysis, Finite Element Analysis, Concrete Technology.

Education

BITS-PILANI HYDERABAD CAMPUS (CGPA – 8.03)

M.E. STRUCTURAL ENGINEERING — 2014-2016

BHILAI INSTITUTE OF TECHNOLOGY DURG (78.9%)

B.E. CIVIL ENGINEERING — 2010-2014

INTERMEDIATE / 12TH (87.8%)

CGBSE RAIPUR — 2010

MATRICULATION / 10TH (88.3%)

CGBSE RAIPUR— 2008

Software Skills

STAAD Pro Connect Edition & V8i, STRAP, SAP2000, ANSYS (Mechanical APDL), ABAQUS, MATLAB, LINGO, TORA, AutoCAD, Smart Sketch, MathCAD, MS Office.

Teaching Experiences (5 Year 2 Month)

CSVТУ Bhilai: Chhattisgarh Swami Vivekanand Technical University Bhilai Assistant Professor at University Teaching Department (Dept. of Structural Engg.)

Duration: 5 Months (From 5th March 2021 to 22nd July 2021).

- Conducted theory & labs sessions for Post Graduate students of Dept. of Structural Engg.
- Guided students for their thesis and research work for final year students.
- Done consultancy work (analysis & design) of various Public and residential work of CGPWD.
- Done all the responsibility given by university higher authority of CSVТУ Bhilai.

NPIU: National Project Implementation Unit (A Unit of MHRD, Govt of India for Implementation of World Bank Assisted Projects in Technical Education)

Assistant Professor under TEQIP-III Project at VEC Lakhanpur, Ambikapur, Dist.- Sarguja, Chhattisgarh (Dept. of Civil Engg.)

Duration: 2 Years 5 Months (From date 4th Sept 2018 to date 4th March 2018).

- Conducted theory & labs sessions for under Graduate students of Dept. of Civil Engg.
- Conducted theory & labs sessions for Post Graduate students of Dept. of Structural Engg.
- Conducted theory & labs sessions for under Graduate students of Dept. of Mining Engg.
- Conducted theory & labs sessions for 1st year under Graduate students of all Dept. of Engg.
- Guided students for their thesis and research work for final year students.
- Done all the responsibility given by higher authority of institute & Head of Department.

**CSVTU Bhilai: Chhattisgarh Swami Vivekanand Technical University Bhilai
Assistant Professor at University Teaching Department (Dept. of Structural Engg.)**

Duration: 11 Months (From date 3th Oct 2017 to date 31th Aug 2018).

- Conducted theory & labs sessions for Post Graduate students of Dept. of Structural Engg.
- Guided students for their thesis and research work for final year students.
- Done consultancy work (analysis & design) of various Public and residential work of CGPWD.
- Done all the responsibility given by university higher authority of CSVTU Bhilai.

BITS-PILANI Hyderabad Campus - Teaching Assistant

Duration: 1 year 5 Months (Aug 2014 - Dec 2015)

- Conducted labs sessions of Surveying for 2nd year B.E. students
- Conducted labs sessions of Highway Engineering for 3rd year B.E. students.
- Conducted Tutorial and lecture sessions for subject Design of Steel structures for B.E. final year students.
- Helped the respective instructor for evolution process of above courses.

**Construction
Experiences
(1 Year 9 Month)**

**Aahana Construction, Civil & Road Contractor, Nandini Nagar, Ahiwara
Dist.- Durg, Chhattisgarh
Civil Site Engineer – Construction work**

Duration: 1 Year 3 Months (From date 1th July 2016 to date 30th Sept 2017).

- Work as Site Engg. for construction of Nala & Cement Concrete (CC) Road at Ahiwara Nagar Palika Parishad.
- Work as Site Engg. for construction of Cement Concrete (CC) Road at Nagar Panchayat Dhamdha.
- Work as Site Engg for Minor Civil Construction works at various places of Ahiwara.
- Done consultancy work (analysis & design) of various Private residential work.
- Done cost estimation work of various Private residential work.
- Done all the responsibility given related to Civil Engg by Aahana Construction.

LEA Associates South Asia Pvt. Ltd., New Delhi – PGET

Duration: 6 months (13th January 2016 –18th June 2016)

Project: Bridge Engineering

- Preparation of General arrangement drawings for the minor bridges.
- Analysis of substructure and superstructure of bridge through STAAD Pro.
- Detail design of substructure and superstructure (Deck slab & RCC Girder) of bridge, Box culvert, Retaining wall and Vehicular under Pass (VUP).

Internships

**TANDULA WATER RESOURCES DIVISION
Durg (Chhattisgarh)**

Duration: 1 Months (5th June 2013 – 7th July 2013)

Project: Construction of foundation of weir.

AMAR INFRASTRUCTURE LTD.

Durg (Chhattisgarh)

Duration: 1 Months (18th May 2012 – 18th June 2012)

Project: Construction of multi storied residential building.

Appointments

- Appointed for Setting of Question paper & providing Solution for various UG & PG subjects of Civil Engg. by CSVTU Bhilai & Sant Gahira Guru University, Ambikapur.
- Appointment for External Examiner for various Diploma subjects of Civil Engg. by Govt Polytechnic Ambikapur, Surajpur & Koriya.
- Appointment for External Examiner for various PG subjects of Structural Engg. by UTD CSVTU Bhilai.

Subjects Experts

For Under Graduation (Civil Engg.)

- Basic Civil Engineering
- Engineering Mechanics
- Building Materials
- Mechanics of Solid
- Fluid Mechanics I & II
- Design of Concrete Structures
- Design of Steel Structures
- Structural Analysis I, II & III

For Under Graduation (Mining Engg.)

- Engineering Materials
- Mechanics of Solid & Fluid Mechanics

For Post-Graduation (Structural Engg.)

- Matrix method of Structural Analysis
- Advanced Construction Management
- Limit state Design of Steel Structures
- Earthquake Effects on Structures
- Advanced Foundation Engineering
- Dynamics of Structures

For Post-Graduation (Water Resources & Environment Engg.)

- Environmental Hydrology
- Advanced Hydrology
- Advanced Ground water Hydrology

Workshop coordinated

- One day workshop on "Motivation for Start-up" at UTD CSVTU Bhilai on 22-May-18.
- One day workshop on "Industrial Building and Application Of composite Materials in Civil Engg." at UTD CSVTU Bhilai on 26-Mar-18.

Organizing Committee member

- One day International Webinar on "Non-Destructive Test on Concrete" at VEC Lakhanpur under TEQIP-III on 1-Jun-20.
- One day workshop on "Developing soft skills for International Market" at UTD CSVTU Bhilai on 16-July-18.
- One day workshop on "Manav muly aur Shiksha" at UTD CSVTU Bhilai on 14-July-18.
- One day workshop on "Bridging Academic R & D with Product innovation" at UTD CSVTU Bhilai on 29-June-18.
- One day workshop on "Academic writing Skills" at UTD CSVTU Bhilai on 26-June-18.
- 2-days workshop on "Human value for mentor" at UTD CSVTU Bhilai on 07-Jun-18.
- One day workshop on "Disaster & Healthcare management" at UTD CSVTU Bhilai on 17-May-18.
- 2-days workshop on "Planning Practices" at UTD CSVTU Bhilai on 11-May-18.
- 2-days workshop on "Outcome Based Education & Accreditation" at UTD CSVTU Bhilai on 21-Apr-18.
- 3-days workshop on "GIS and ITS Application" at UTD CSVTU Bhilai on 27-March-18.
- One day workshop on "Scientific Writing & Interaction with experts from ROSTOCK UNIVERSITY (GERMANY)" at UTD CSVTU Bhilai on 25-Nov-17.
- "CIVIL ENGINEERING ASSOCIATION" for year 2012-13 at BIT Durg.

Workshop participated

- 4-days online Short-Term Online Course on “Train the Trainers on Examination Reforms” by KLETU Hubbli & NPIU, MHRD under TEQIP-III on 7-Dec-20.
- 5-days online Short-Term Online Course on “Advances in Civil Engg.” by IIT Indore under TEQIP-III on 11-Oct-20.
- One day national Webinar on “Yoga and Meditation” on World Yoga Day at VEC Lakhanpur under TEQIP-III on 21-Jun-20.
- One day national Webinar on “Construction Planning & Execution of Multi-storey Building” at VEC Lakhanpur under TEQIP-III on 15-Jun-20.
- One day national Webinar on “Gender Equality, Women's Empowerment and Women's Rights” at VEC Lakhanpur under TEQIP-III on 11-Jun-20.
- One day Webinar on “World Environment Day” at VEC Lakhanpur under TEQIP-III on 5-Jun-20.
- One day International Webinar on “Non-Destructive Test on Concrete” at VEC Lakhanpur under TEQIP-III on 1-Jun-20.
- 2-days webinar on “STAAD.Pro CONNECT Edition” software by Bentley on 5-May-20.
- One day workshop on “Outcome Based Education” at State Administration Academy, Nimora, Raipur on 18-Sept-19.
- 5-days FDP on “Advanced pedagogy” at IIT Gandhinagar under TEQIP-III on 10-June-19.
- 5-days FDP on “Digital Land Surveying” at IIT Roorkee under TEQIP-III on 3-June-19.
- One-week international workshop on “Fuzzy logic in Civil & Environmental Engg.” at UTD CSVTU Bhilai on 25-Jan-19.
- Two-week FDP on “Solid works” software at GEC Jagdalpur under TEQIP-III on 12-Jan-19.
- One week FDP on “Induction Training - phase I by NITRR Kolkata” at UTD CSVTU Bhilai on 16-March-18.
- One day workshop on “Importance of Student feedback & its analysis” at VEC Lakhanpur under TEQIP-III on 26-Feb-18.
- 2-days workshop on “Simulation Training on ECBC by BEE & CREDA” at UTD CSVTU Bhilai on 2-Feb-18.
- 2-days workshop on “Extensive Training on ECBC by BEE & CREDA” at UTD CSVTU Bhilai on 15-Jan-18.
- One day workshop on “Scientific Writing & Interaction with experts from ROSTOCK UNIVERSITY (GERMANY)” at UTD CSVTU Bhilai on 25-Nov-17.
- 3-days workshop on “Value Education” at UTD CSVTU Bhilai on 27-Oct-17.
- 2-days workshop on “Civil Engineering Construction Practice” at BIT Durg on 7-Sept-2013.

Academic Projects

Design of Electric Transmission Tower

Tools: STAAD Pro

Responsibility & Achievements-

- Observed the load calculation of 3D model. Done analysis in STAAD.PRO.
- Design the electric transmission according to IS 800:2007 & IS 875 PART-2.

Investigation of Geo-polymer Concrete

Responsibility & Achievements-

- Studied the chemical reaction behind GPC and effects of various ingredients in GPC.
- Results show that the manufactured GPC has more compressive strength as compare to cement concrete.

Finite Element Analysis of Concrete Pavement exposed to traffic load

Tools: ANSYS Mechanical APDL 14.5

Responsibility & Achievements-

- Observed stress intensity of the 3D model of Concrete pavement with thermal and vehicle load.
- Results shows that maximum stresses occur at the corners of the pavement.

Investigation of Under-reamed pile foundation

Tools: Abaqus

Responsibility & Achievements-

- Studied the maximum deflection and strain of the axis-symmetric 2D model.
- The results shows that the maximum strain occurs at the interface of soil and reamed bulb.

Seismic Analysis of Multi-storeyed building

Tools: STRAP 12.5

Responsibility & Achievements-

- Done modelling for G+10 storey building.
- Done Modal analysis of G+10 storey building.

Improvement of the intersection at the highway

Responsibility & Achievements-

- Observed the number of conflicts points possible at the intersection of road.
- Try to reduce number of conflict points by providing signal and rotary.

**National
Service
Scheme
(NSS)**

- NSS Member of VEC Lakhanpur institute for year 2018-19.
- Programme officer of One Day NSS programme for "World Hand wash day" & "World Toilet day" on 15-Oct-19
- Co-Programme officer of 7-days NSS camp at Krishnapur Village, Ambikapur, CG from 16-Feb-2019.

Accolades

- Qualified GATE exam 5 times (2014, 2016, 2017, 2018 & 2019).
- My best GATE Score was 609, AIR-2890 in GATE 2017.
- Got scholarship" for scored above 85 % in 12th class for graduation from "CHHATTISGARH MADHYAMIK SHIKSHA MANDAL, RAIPUR.
- Secured 1st rank in 10th class in one of District area.

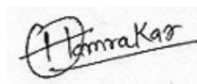
Sports Activity

- Member of Runner Champion cricket team for 1st year Intersection cricket Tournament on year 2010-11 at BIT Durg.
- Member of one time Champion & one-time Runner Champion cricket team for Branch of Civil Engg from year 2011-14 at BIT Durg.

DECLARATION:

I do hereby declare that the above information is true to the best of my knowledge.

Place: Dhamdha, Durg
Date: 25-Aug-2021



Hari Om Tamrakar