

CV of Arun Paudel

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DOB: 30th November, 1989

Academic Qualifications

- 2014-2016 **Masters of Science in Structural Engineering (Distinction)**
Tribhuvan University, Institute of Engineering, Pulchowk Campus, Nepal
Supervisor: Prof Hikmat Raj Joshi
Thesis title: Behaviour of concrete-filled steel tubular columns under compression in context of Nepal.
- 2008-2012 **Bachelor of Civil Engineering**
Tribhuvan University, Institute of Engineering, Pulchowk Campus, Nepal
Final Year Project: Survey, Design and Estimation of Jhor-Bhanjyang Road section.
- 2006-2008 **Intermediate Level (+2)**
Higher Secondary Education Board Nepal, Apex Academy Higher Secondary School, Chitwan, Nepal
Major: Math and Physics

Research Interests

I have always been intrigued by the use of composite structure using high strength steel and concrete. I'm also highly interested in study of the behavior of steel-concrete composite structure under dynamic loading. With recent turn of events, I'm quite keen to work on fire resistance, blast resistance in composite structure, energy efficient building, sustainable and green building. Previously, I have conducted research to check the scope of concrete-filled steel tubular columns in Nepal. Currently, I am also involved in research in the area of bamboo structure as well as mud-mortar masonry structure with gabion band.

Scholarships and Awards

- 2008-2012 'The College Fellowship Scholarship' in various semesters.
- 2008 Full Scholarship for Bachelor's Degree in Civil Engineering from the Government of Nepal.

Academic Employment

- May 2018-Present. Assistant Professor in Civil Engineering. (Full Time)
Pulchowk Engineering College, Tribhuvan University, Lalitpur, Nepal.
- Responsibilities: Deliver lectures on Applied Mechanics (Statics and Dynamics), Theory of Structure, Design of Steel Structure Design of Reinforced Concrete Structure and Supervise Final year Project and Thesis on Seismic Analysis and Design of Multi-Storey Building, Analysis and Design Of Various Bridges for undergraduate level

students.

- Nov 2013-Feb 2014. Sr. Lecturer in Civil Engineering. (Full Time)
Sagarmatha Engineering College, Tribhuvan University, Lalitpur, Nepal.
- Responsibilities: Deliver lectures on Applied Mechanics (Statics and Dynamics), Theory of Structure, Design of Steel Structure, Design of Reinforced Concrete Structure and Supervise Final year Project on Seismic Analysis and Design of Multi-Storey Building for undergraduate level students.
- Nov 2012-Sept 2013 Lecturer in Civil Engineering. (Full Time)
United Technical College, Pokhara University, Kathmandu, Nepal.
- Responsibilities: Deliver lectures on Applied Mechanics (Statics and Dynamics), Theory of Structure, Design of Steel Structure, Design of Reinforced Concrete Structure and Supervise Final year Project on Seismic Analysis and Design of Multi-Storey Building for undergraduate level students.
- Sept 2015-April 2018 Part time Lecturer in Civil Engineering.
Kathmandu Engineering College, Pokhara University, Kathmandu, Nepal.
- Responsibilities: Deliver lectures on Applied Mechanics (Statics and Dynamics), Theory of Structure, Design of Steel Structure, Design of Reinforced Concrete Structure and Supervise Final year Project on Seismic Analysis and Design of Multi-Storey Building for undergraduate level students.

Engineering Employment

- Jan 2013-Jan 2017 **Third Pole Engineering Consultancy:**
Position: Director and Civil Engineer
Duties: Overview of all running projects, structural design and occasional site visit
- Design of Residential Building
 - Design of View Tower
 - Design of swimming pool and entertainment center, etc.
- May 2014- April 2018 Impulse Engineering Consultancy
Position: Structural Engineer (Part Time)
Duties: Structural design, site visit, conduct training, etc.
- Design of Learning center for unprivileged kids in Dolakha, Nepal
 - Design of Shopping mall in Bharatpur, Chitwan

- Monitoring and Evaluation of Implementation of Nepal Building Codes at various Municipality in co-ordination with Department of Urban Development and Building Construction (DUDBC)
- Conduct training on Finite Element Analysis for governmental officers of DUDBC, Nepal
- Conduct training on innovative construction material and techniques to undergrad students and site managers in Pulchowk Campus, IoE
- Seismic Vulnerability assessment and Retrofit Design of the Sterling House Building inside British Embassy premises, Kathmandu
- Feasibility Study, Detailed Design and Estimate of Bridges (2 Numbers) over Canals of Rani-Jamara-Kulariya Irrigation Project
- Retrofit Design of the School Buildings
- Feasibility Study, Detailed Design and Estimate of Jamuwar Khola Bridge
- Nepal Hospital Seismic Retrofit Project (funded by DFID)
- Retrofit Design and construction supervision of the Buildings in Handicapped International Nepal Premises
- Design of 25 bed District Hospital in Chame, Mamang

May 2015-
September 2017

Multi-Tech Engineering Consultancy:

Position: Structural Engineer

Duties: Structural design and site visit

- Design of community building with conference hall
- Design of “Terai Hospital”
- Design of Post-earthquake Prefabricated Health Post in association with UNICEF
- Damage assessment of effected building after earthquake in association with UNICEF.

July 2020-Present

Central Material Testing Laboratory, Pulchowk Campus, IoE

Position: Lab Incharge/ Structure Engineer

Duties: Over-look all test, report preparation and other logistics related to all test carried out in lab

- Physical test on reinforcements, strands and gabions
- Physical tests on sand and aggregate
- Physical test on cement
- Physical tests on timber
- Physical test on bricks and other concrete blocks
- Concrete Mix-Design for various national projects
- Coating test on Zinc
- Calibration of Force and hardness machine (CTM, UTM and other proving rings)
- Non-destructive and other destructive tests on hardened concrete
- Pull-out test, etc
- Complete structural assessment of Khandbari District Hospital and Retrofit design work
- Structural Assessment of Gautam Buddha International Stadium in Bharatpur Municipality, Chitwan

- Structural assessment of Municipal Office Building of Golbazar Municipality

Participated Seminars/ Workshop:

7 th January, 2013	A seminar on “Earthquake Risk Management in Developing Countries”, held in Lalitpur jointly organized by International Center for Urban Safety Engineering (ICUS), Institute of Industrial Science, The University of Tokyo, Japan; Nepal Engineers Association (NEA), Nepal; National Society for Earthquake-Technology (NSET)
May 9 – 11, 2015	Three days seminar titled “ Repair and Retrofit of damaged building” Organized by Nepal Engineers Association (NEA), Nepal and National Society for Earthquake-Technology (NSET)
2014, 2015, 2016, 2017, 2019, 2020, 2021, 2022, 2023	Two day Conference entitled “IoE Graduate Conference”, Organized by Institute of Engineering, Tribhuvan University, Nepal organized every year
27 th March, 2018	Seminar on “Historical Preservation and Structural Intervention at the Reconstruction of Nepal” organized by UNOPS Nepal and Build Change Nepal
26 th -28 th April, 2017	National seminar on,” Disaster Risk Reduction in national heritage sites of Nepal” held in Kathmandu
5 th – 6 th September 2018	International Conference on Science, Engineering & Technology (ICSET) held in Bangkok, Thailand by IIER
13 th -14 th September 2018	Attended 2 days’ workshop on “Design and Construction Challenges of Bamboo Structure” in Bali, Indonesia.
5 th -9 th June 2019	Five days training on “Management and Supervision of Bridge Maintenance Contracts Course” organised by BUMP and WSP International, held in Kathmandu
5 th -7 th August 2021	International seminar on,” Policies and Challenge for Earthquake Risk Reduction in heritage buildings of Nepal” in Kathmandu
9 th -11 th July 2022	International workshop on “Building Safer and More Resilient communities”, Kathmandu
25 th -27 th October 2023	Oral Presented of paper titled “First CFST Arch Bridge in Nepal” on 10th International Conference On Arch Bridges in Fuzhou, China organized by Fuzhou University and iCAB

Publications and Research

- Pranav Acharya , Gokarna B. Motra , Kshitij C. Shrestha, **Arun Paudel**, “Vulnerability Assessment of a Hybrid Masonry Building with Unreinforced Masonry Peripheral Walls and Central Reinforced Concrete Columns”, Proceedings of 10th IOE Graduate Conference, Peer Reviewed ISSN: 2350-8914 (Online), 2350-8906 (Print) Year: 2021 Month: October Volume: 10
- Nawaraj Neupane, Bharat Mandal, **Arun Paudel**, “Effect of Orientation of Arches and Hangers in Tied Arch Bridge System”, Proceedings of 12th IOE Graduate Conference, Peer Reviewed ISSN: 2350-8914 (Online), 2350-8906 (Print) Year: 2022 Month: October Volume: 12
- Kobid Kunwar, Jagat Kumar Shrestha, **Arun Paudel**, "VALIDATION OF THE Z-AXIS DEFORMATION IN METAL PLATE DURING WELDING: A FINITE ELEMENT APPROACH”, Proceedings of 14th IOE Graduate Conference, Peer Reviewed ISSN: 2350-8914 (Online), 2350-8906 (Print) Year: 2023 Month: November Volume: 12
- Krishna Shrestha, Bijaya Jaishi, **Arun Paudel**, Baochun Chen, JP Liu, “First CFST Arch Bridge in Nepal”, Proceedings of 10th International Conference on Arch Bridges
- Sailesh KC, Samir Gurung, Sandesh Regmi, Srijan Bajracharya, Sugam Gautam, **Arun Paudel**, “Comparative Analysis of RC Commercial and Residential Buildings using NBC 105:1994, NBC 105:2020 and IS 1893:2016”, Proceedings of KEC Conference 2023, International Conference on Engineering and Technology, ISSN 2961-1695 (Print) and ISSN 2961-1997 (Online)
- **Arun Paudel**, Aman Karki, Aamir Raj Lamichhane, Ashutosh Lamsal, Amrit Bhatta, Bishal Bastola, “Implications on the Utility of NBC 205:2012 due to the Revision of NBC 105:1994”, Nepal Journal of Civil Engineering Volume: 4(1) April 2024 ISSN: 2773-806X

Technical Skills

SAP 2000, ETABS, ABAQUS, Midas Civil. CSI Bridge, STAAD PRO, SAFE, FORTRAN Programming, C Programming, Visual Basic, Matlab, AutoCAD.

Professional Memberships

Nepal Engineering Council (8372 ‘A’)

Nepal Engineering Association (13786)

Languages

Nepali, English, Hindi

References

Prof. Dr. Hikmat Raj Joshi
Associate Professor

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Prof Dr. Gokarna B. Motra
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