

Curriculum Vitae

1. **Name:** Tshering Denka
2. **Position:** Lecturer/ Head of Department (Science and Humanities Department)
3. **Employer:** College of Science and Technology, Royal University of Bhutan.
4. **Date of Birth:** 8th July 1990
5. **Nationality:** Bhutanese
6. **Education:**



College and/or university Attended	Degree/certificate or other specialized education obtained	Date Obtained
Malardalen University, Vasteras, Sweden	Master of Science in Mathematics/Applied Mathematics	2017
University of Wollongong, New South Wales, Australia	Bachelor of Mathematics (Honours)	2012

7. Responsibility and Membership in Professional Associations:

- Head of Department, Science and Humanities Department, College of Science & Technology.
- Vice-Chair, IEEE Bhutan Subsection R10
- Member of Centre for Disaster Risk Reduction and Community Development Studies (CDRR&CDS), College of Science & Technology.
- Secretary, IEEE Bhutan Subsection R10
- Member of the College Management Committee, College of Science and Technology
- OC Exam, Exam Cell, College of Science & Technology.
- Editor-in-Chief, Zorig Melong, College of Science and Technology
- Publication Manager, College of Science and Technology

8. Current Job Profile

1. Lead a department of 16 faculty members and 2 supporting staff members, overseeing academic planning and performance review.
2. Managing departmental operations including workload allocation and policy implementation.
3. Teach mathematics to undergraduate Engineering students
4. Coordinating international conference on Science and Technology, engaging over 300 participants (national and international)
5. Conduct research in interdisciplinary mathematics

9. Publications

1. Namgyal, J., Namgay,T., Galey, P., Denka,T. (2025). Short-Term Load Forecasting in Thimphu and Phuentsholing Regions Using Machine Learning and Deep Learning Techniques. *Zorig Melong: A Technical Journal of Science, Engineering and Technology*, Vol. 8(2), pp.180-194

2. Chettri, N., Thapa, M., & Denka, T. (2022). Bhutanese Ornamental Windows and Its Contribution to Inter-story Drift in Rammed Earth Structure: A Case Study. *Bhutan Journal of Research and Development* (Special Edition 2022). <https://doi.org/10.17102/bjrd.rub.10.2.013>
3. Adhikari, K., Choden, Y., Cheki, T., Gurung, L., Denka, T., Gupta, V., (2020). Performance Evaluation of Satellite Precipitation Estimation with Ground Monitoring Stations over Southern Himalayas in Bhutan. *Acta Geophysica*, Vol. 68(1), pp. 933-943. <https://doi.org/10.1007/s11600-020-00434-z>
4. Denka, T., Lhamo, D. (2018). Comparison of Iterative Methods for Sparse Linear Systems. *Zorig Melong: A Technical Journal of Science, Engineering and Technology*, Vol.4(1)
5. Denka, T. (2017). *Nonlinear Regression of Power-Exponential Functions: Experiment Design for Curve Fitting*. Master's thesis, Mälardalen University, Sweden.