



Dr. Avirag Bajpai

PMP®, PMI-RMP®, Ph.D. (IIT Kanpur),
M.Tech (IIT Madras), B.Tech

Areas of research and teaching

- Construction Management
- Project Risk Management
- Project Cost Management
- Project Scope and Schedule Management
- Multi-Criteria Decision Making
- Project Management Professional (PMP) Training

Dr. Avirag Bajpai is an Associate Professor at the L&T Institute of Project Management at Vadodara. He holds a Ph.D. in Industrial & Management Engineering from IIT Kanpur and M.Tech in Construction Technology & Management from IIT Madras. He has over sixteen years of professional and academic experience. He was employed with reputed organizations such as the National Institute of Construction Management and Research (NICMAR University) and L&T Construction (PT&D-IC) before joining L&T IPM.

As a faculty member, he engaged in regular student teaching, Management Development Programmes (MDPs), and academic administration. He delivered sessions and coordinated MDP programs for Military Engineering Services, AFCONS, SPCPL, L&T, NPPL (Pidilite), SCPL, and others during his tenure as faculty at NICMAR with excellent instructive and administrative feedback. Dr. Bajpai was also involved in developing the syllabus for the new university-level course for MBA in Advance Project Management.

Dr. Bajpai has more than twelve years of construction industry experience in addition to his academic credentials. He has experience in construction site planning and execution, as well as project planning and coordination in the electrical distribution sectors across India. He also worked as a project controller and deputy project manager for a public client in a utility power distribution project.

Project Management, Project Risk Management, Project Administration, and Multi-Criteria Decision Making in projects are among his teaching specialties. He is passionate to use a modern approach in his discussions that includes real-life cases, role plays, and other activities. He has also authored research articles, presented at international conferences, and published in reputed national and international journals. His research focuses on risk management, digitalization enablers, project delivery, and operational issues related to the construction.

Qualifications

- Ph.D. from Industrial & Management Engineering, Indian Institute of Technology Kanpur
- M. Tech in Construction Technology and Management from Indian Institute of Technology Madras
- B. Tech in Electrical and Electronics Engineering from Uttar Pradesh Technical University, Lucknow

Professional Certifications

- Certified Risk Management Professional (PMI-RMP)[®] from PMI, USA
- Certified Project Management Professional (PMP)[®] from PMI, USA
- Certified Authorized Training Partner Instructor – PMP[®] from PMI, USA

Selected Publications

- **Bajpai, A.**, and Misra, S. C. (2022). *Barriers to implementing digitalization in the Indian construction industry*. International Journal of Quality & Reliability Management. Vol. 39 No. 10. pp. 2438-2464. <https://doi.org/10.1108/IJQRM-09-2020-0318> (**ABDC-B; SCOPUS IF: 3.5; Q-2**).
- **Bajpai, A.**, and Misra, S. C. (2022). *A Framework for Continuation of Digitalization in Construction: A PLS-SEM Approach*. Engineering, Construction, and Architectural Management Vol. ahead-of-print <https://doi.org/10.1108/ECAM-03-2022-0230> (**ABDC-A; SCOPUS IF: 4.07; Q-1**).



- **Bajpai, A.,** and Misra, S. C. (2022). *Evaluation of Success Factors to Implement Digitalization in the Construction Industry*. Construction Innovation: Information, Process, Management. Vol. ahead-of-print <https://doi.org/10.1108/CI-02-2022-0042> **(ABDC-B; SCOPUS IF: 5.21; Q-1)**.
- **Bajpai, A.,** Misra, S.C., and Kim, Dong Y (2023). *Identification and Assessment of Risks Related to Digitalization in Indian Construction: A Quantitative Approach*. Business Process Management Journal Vol. ahead-of-print <https://doi.org/10.1108/BPMJ-11-2022-0571> **(ABDC-B; SCOPUS IF: 4.52; Q-1)**.
- Tikate, H. and **Bajpai, A.** (2022). *Challenges for Implementation of Building Information Modelling in Affordable Mass Housing Projects*. Journal of Construction Management, NICMAR. Vol. 37, No. 2, pp. 5-15. **(UGC-CARE, Category I)**.
- **Bajpai, A.,** and Misra, S. C. (2021). *Analyzing key barriers for adoption of digitalization in the Indian construction industry: a case study*. Book Chapter in Progress in Advanced Computing and Intelligent Engineering (pp. 683-693). Springer, Singapore DOI:[10.1007/978-981-33-4299-6_56](https://doi.org/10.1007/978-981-33-4299-6_56) **(SCOPUS Indexed)**.
- **Bajpai, A.,** and Misra, S. C. (2020). *Assessment of Success Determinants for Implementing Digitalization in the Indian Construction Industry*. In 2020 IEEE International Conference on Engineering, Technology, and Innovation (ICE/ITMC) Cardiff, United Kingdom (pp. 1-6) , DOI:[10.1109/ICE/ITMC49519.2020.9198636](https://doi.org/10.1109/ICE/ITMC49519.2020.9198636) **(SCOPUS Indexed)**.
- **Bajpai, A.,** and Misra, S. C. (2020). *Identifying critical risk factors for use of digitalization in the construction industry: A case study*. In 2020 IEEE India Council International Subsections Conference (INDISCON), Vizag, India (pp. 124-128) DOI:[10.1109/INDISCON50162.2020.00036](https://doi.org/10.1109/INDISCON50162.2020.00036) **(SCOPUS Indexed)**.
- Tikate, H. and **Bajpai, A.** (2021). *Challenges for Implementation of BIM in Affordable Mass Housing Projects*. 5th International Conference on ‘Construction, Real Estate, Infrastructure and Project Management. Organized by NICMAR, Pune, India **(Best Paper Award)**.
- **Bajpai, A.** and Jagannathan, M. (2024). *Case Study: The NAGAR Project (Integrated Case)*, L&T Institute of Project Management Case **(L&T IPM Case). 2024.**
- **Bajpai, A.** and Jindal, V. (2024). *Case Study: De-Risking the project logistics risks (transportation and shifting of heavy equipment’s at remote location)*, L&T Institute of Project Management Case **(L&T IPM Case). 2024.**