KARTHIK DASARI



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Assistant Professor,
NIT Srinagar, J&K, India

PROFESSIONAL SUMMARY

Ambitious civil engineering professional and researcher aiming to leverage more than seven years of industry/academic/research experience in thesis advisement and lesson planning in academics. Aiming to secure an opportunity in which dynamic teaching methods, creativity and integrity will be highly valued.

EXPERTISE AND SKILLS

Project Planning and Management, Building Information Modelling (BIM)

Microsoft Project, Primavera, Autodesk Revit, ArcGIS, StaadPro, SAP, AutoCAD, SDS/2

EDUCATION DETAILS

Degree	Discipline	Institution	Board/ University	Year of Passing	Percentage of Marks
PhD	Civil Engineering	NIT Warangal, Warangal, Telangana, India		2019	--------
M. Tech	Construction Technology & Management	NIT Warangal, Warangal, Telangana, India		2013	7.71
PGD	Alternative Dispute Resolution	NALSAR University of Law, Telangana, India		2021	61
B.E	Civil Engineering	MVSR Engg. Clg.	Osmania University, Hyderabad, Telangana, India	2010	72.06
Intermediate	Mathematics, Physics & Chemistry	Krishnaveni Jr Clg.	Telangana State Board Education, Telangana, India	2006	86.30
Xth Class	S.S.C	SCHS, Manuguru,		2004	77.33

EXPERIENCE DETAILS

TEACHING (6Y 5M)

Designation	Pay Level/ Grade	Institution	From	To	Total Yrs - mm
Assistant Professor	Level 11	NIT Srinagar, Srinagar, J&K, India	04/08/2022	Present	3Y 10M
Assistant Professor	Level 10	NIT Srinagar, Srinagar, J&K, India	06/04/2021	04/08/2022	1Y 4M
Assistant Professor	AGP 6000	KL Deemed to be University, AP, India	16/11/2020	30/03/2021	0Y 5M
Assistant Professor	Ad-hoc	NIT Warangal, Telangana, India	30/7/2019	13/12/2019	0Y 5M
Assistant Professor	Ad-hoc	NIT Warangal, Telangana, India	30/12/2014	31/05/2015	0Y 5M

INDUSTRY (2 yrs)

Designation	Pay	Organization	From	To	Total Yrs - mm
Manager	6 LPA	Sumashaila Developers, Hyderabad, India	06/2014	12/2014	0Y 6M
Planning Engineer	5 LPA	Afcons Infrastructure Pvt. Ltd., Kolkata, India	06/2013	06/2014	1Y 0M
BIM Modeler	2.4 LPA	AG&E, Strct. Engg. Hyderabad, India	06/2010	12/2010	0Y 6M

RESEARCH

Doctoral Research: Introduction of human factors into construction: An alternate approach to work measurement techniques for construction labour productivity measurement.

Thesis Title: A Scientific Approach to Estimate the Masonry Labour Productivity using Human Physical Parameters

Master's Thesis: 4D construction planning by integrating GIS application with project scheduling

AWARDS (01)

Best Paper award for the conference paper titled **"An Exploratory Study on the Integration of Digital BIM and IOT in Structural Health Monitoring Practices"** presented in National Conference on Advances in Construction Materials and Management at NIT Warangal, India, **2022.**

PROGRAMS CONDUCTED (01)

Online Certification Course: Conducted an online certificate course on "BIM for Civil Engineering Professional" in January 2024 at CED, NIT Srinagar, India

PUBLICATIONS

Patents (02)

1. A NOVEL MEANS OF ANCHORAGE FOR REINFORCING BARS IN REINFORCED CONCRETE MEMBERS.
   Patent No: 528583; Application No: 202041005177 A; Publication Date: 14/02/2020; Published: 14/02/2020; Granted: 15/03/2024.
2. A METHOD OF MIXING FOR PRODUCING HIGH-PERFORMANCE REACTIVE POWDER CONCRETE (RPC)
   Application No: 202511107959; Publication Date: 07/11/2025; Published: 26/12/2025.

Journals (06)

1. **Karthik, D**. and Rao, C.B.K., **2019**. Influence of Human Parameters on Labor Productivity in the Construction Industry. Human factors, 61(7), pp. 1086-1098 https://doi.org/10.1177/0018720819829944. (**Q1, SCI**, **IF=3.7**)
2. **Karthik, D**. and Rao, C.B.K., **2019**. The Analysis of Essential Factors Responsible for Loss of Labour Productivity in Building Construction Projects in India. Engineering Journal, 23(2), pp.55-70., https://doi.org/10.4186/ej.2019.23.2.55. (**Q2, Scopus Indexed, Elsevier**)
3. **Dasari Karthik** & C. B. Kameswara Rao (2019) Identifying the significant factors affecting the masonry labour productivity in building construction projects in India, International Journal of Construction Management, 22(3), pp. 464-472, https://doi.org/10.1080/15623599.2019.1631978. (**Q1**, **Scopus Indexed, ESCI**)
4. Ansari, S.A. and **Karthik, D**., **2022**. Labor relation in construction industry in India. *Materials Today: Proceedings*, *60 (3)*, pp.1581-1587. https://doi.org/10.1016/j.matpr.2021.12.119 (**Q2, Scopus Indexed, Taylor and Francis**)
5. Keesara VR, **Karthik D** (**2014**) 4D Planning and Scheduling of the Construction Project Using Project Management Software and GIS. Geoinfor Geostat: An Overview 2:3. doi:10.4172/2327-4581.1000122 (**Internationally double-blind peer reviewed)**
6. Dasari Karthik & C. B. K. Rao **2016**, 'A Study on Construction Labour Productivity Parameters in India', Journal of Construction Engineering, Technology and Management, vol. 6, no. 1, pp. 45-52. **(National Journal)**

Book Chapters (02)

7. **Dasari, K**., Dogra, A., Adeel, H. (2023). An Exploratory Study on the Integration of Digital BIM and IOT in Structural Health Monitoring Practices. In: Vilventhan, A., Singh, S.B., Delhi, V.S.K. (eds) Advances in Construction Materials and Management. ACMM 2022. Lecture Notes in Civil Engineering, vol 346. pp 161–174, Springer, Singapore. https://doi.org/10.1007/978-981-99-2552-0_13. (**Scopus Indexed**)
8. **Dasari, K., Dogra, A. (2024).** Designing a Virtual Twin for Structural Health Monitoring by Integrating BIM and Digital Twin Framework. In: Pancharathi, R.K., K. Y. Leung, C., Chandra Kishen, J.M. (eds) Low Carbon Materials and Technologies for a Sustainable and Resilient Infrastructure . CBKR 2023. Lecture Notes in Civil Engineering, vol 440. pp 263–278, Springer, Singapore. https://doi.org/10.1007/978-981-99-7464-1_19 **(Scopus Indexed)**

International Conferences (08)

9. Arun Kumar, Dasari Karthik (2025) 'Development of an IoT-Enabled Smart Sensing Unit for Structural Health Monitoring', International conference on sustainable materials and infrastructure 2025 (ICSMI), IIT Jammu, Jammu & Kashmir, India.
10. Arun Kumar, Dasari Karthik (2025) 'Emerging studies on integrating IoT and BIM for advancements in civil engineering', International conference on Novel Infrastructure Techniques (NITCon-2025). Narula Institute of Technology and IIEST Shibpur, Kolkata, India.
11. Mukund Chand, Arun Kumar, Dasari Karthik (2025) 'Transforming Infrastructure Management: The Integration of IoT and Digital Twin Technologies in Structural Health Monitoring (SHM)', International conference on Novel Infrastructure Techniques (NITCon-2025). Narula Institute of Technology and IIEST Shibpur, Kolkata, India.
12. Mukund Chand, & Dasari Karthik (2025) 'Low-cost SHM system using MEMS-based sensors for real-time performance monitoring', International conference on Computational Intelligence and Autonomous Systems (ICIAS) 2025, organized at Sir Padampat Singhania University, Udaipur India. Dt. 9/10/2025 to 10/10/2025
13. Mukund Chand, Dasari Karthik (2025) 'An experimental study on connecting IoT sensors with Dynamo-based BIM modelling', International conference on advances in materials, modelling and analysis for sustainable and resilient infrastructure. Amrita Vishwa Vidhyapeetham, Coimbatore & National Institute of Technology Tiruchirapalli, Tituchirapalli, India.
14. Mukund Chand, Arun Kumar, Dasari Karthik (2025) 'A Review of BIM Applications In Civil Infrastructure SHM Practices', ASCE International conference on Challenges and Innovations for Sustainable Smart Cities. ASCE India Section Northern Region (ASCE IS NR) & Punjab Engineering College, Chandigarh.

15. Karthik Dasari, Aaditya Dogra. (2023). ‘Designing a Virtual Twin for Structural Health Monitoring by Integrating BIM and Digital Twin Framework’, Cement and Building Koncrete for a sustainable and Resilient infrastructure (CBKR 2023) held on 31/03/2023 at NIT Warangal, India
16. Dasari Karthik & C. B. K. Rao. (2019) ‘Role of Age and BMI in relation between human physical efficiency and task performance of masonry labour’, 17th International Conference on Humanizing Work and Work Environment, NIT Jalandhar, India
17. Dasari Karthik, C. B. K. Rao, P. Ravi Kumar (2018) ‘Assessment of Human Physical Performance from Isometric Strength Tests’, Global Conference on Physical Education and Sport Sciences. Acharya Nagarjuna University, India.

National Conferences (04)

18. Dasari, K., Dogra, A., Adeel, H. (2022). ‘An Exploratory Study on the Integration of Digital BIM and IOT in Structural Health Monitoring Practices’, Advances in Construction Materials and Management. ACMM 2022. Held on 17/12/2022 at NIT Warangal, India
19. Dasari Karthik & C.B.K. Rao. (2021) ‘Integral Formwork for Reinforced Cement Concrete Buildings using Ferrocement Shutter Panels’, 6th National Convention on Ferrocement. Ferrocement Society of India, Symbiosis Institute of Technology (SIT), Pune, India.
20. Dasari Karthik & C. B. K. Rao. (2016) ‘A Study on Construction Labour Productivity Parameters in India’, Advances in Construction Technology and Management. VNIT, Nagpur, India.
21. Dasari Karthik (2025) ‘LC meets IOT: Cognitive perspectives of integrated benefits and challenges’, Indian Lean Construction Conference (ILCC) 2025. IIT Tirupati, Tirupati, Andhra Pradesh, India.

Guest Lectures

1	A lecture on “Construction Labour Productivity - measurement, benchmarking and schedule management” in “One-week online FDP on Construction Technology and Management – A Bird’s-eye view” conducted from 24-29, August 2020 organised by the Department of Civil Engineering, KL Deemed to be University, Vaddeswaram, Guntur, AP
2	A lecture on "The Evolution of Construction Scheduling in Construction Management" for the benefit of students, faculty, research scholars and industry personist is organized by Department of Civil Engineering, GITAM Institute of Technology, GITAM Deemed to be University, VIshakapatnam on 4th October 2021.
3	A lecture on "Benefits of Integrating Geotechnical Data with BIM Process in Infrastructure Projects" organized by Department of Civil Engineering in Association with Teaching and Learning Centre A Six Day FDP (25 to 30 October 2021) on Effective teaching and Learning of Geotechnics for Infrastructure Development, National Institute of Technology Warangal, Warangal on 28th October 2021.
4	A lecture on "Introduction to Building Information Modeling” conducted on 06th November 2021 by Department of Civil Engineering, J.B. Institute of Engineering and Technology, Hyderabad

5	A lecture on "Building Information Modeling in Construction Project Management" conducted on 31st Januvary 2022 by Department of Civil Engineering, VR Siddhartha Engineering College, Vijayawada
6	A lecture on "Advancement in Construction Management & Importance of Building Information Modeling" conducted on 20th Feb 2022 by Department of Civil Engineering, Middle East College, MUSCAT
7	A lecture on "Importance of Dispute Resolution Management in Construction Contracts" conducted on 23rd Feb 2022 by Department of Civil Engineering, KL Deemed to be University, Vijayawada
8	A lecture on "Benefits of implementing BIM in construction industry" conducted on 25th Feb 2022 by Department of Civil Engineering, KL Deemed to be University, Vijayawada
9	A lecture on "Building Information Modeling: Rising Demand in Construction Industry" conducted on 26th Feb 2022 by Department of Civil Engineering, Gokuraju Rnagraju Engg Coll, Hyderabad
10	A lecture on "BIM in Repair and Maintenance" conducted on 4th Mar 2022 by Department of Civil Engineering, VTU, Karnataka
11	A National Webinar on "Measurement of Work Productivity in Construction Projects" conducted on 7th May 2022 by The Department of Civil Engineering, MGIT, Hyderabad
12	An Expert Lecture on "Implementation of BIM towards disaster resilient world" for One Week Online Short-Term Training Programme on "Disaster Mitigation : Civil Engineering Perspective " from June 13 to June 18, 2022 organized by Department of Civil Engineering, National Institute of Technology Srinagar, Hazratbal J&K, India
13	Session chair in 3rd International Conference on Innovative Research in Sciences, Technology, Agriculture, Environment, Business Management and Humanities
14	A Keynote Lecture on "Implementation of BIM towards disaster resilient world" for 7th international conference on sustainible materials for advanced research & technologies in civil engineering (SMART 2023) held on 11th and 12th August 2023 at School of Civil Engineering, Reva Universtiy, Banglore,Karnataka, India
15	An Expert Lecture on "Benefits of Implementing BIM in Construction Industry" held on 26 Dec 2023 at MVSREC, Hyderabad, India

PERSONAL DETAILS

Name **: Dasari Karthik**

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