



Department of Civil Engineering  
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## NUKAPANGU SUGANDHA RATHAN | Assistant Professor

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| CURRENT DESIGNATION/<br>INVOLVEMENT                            | Currently working as an <b>Assistant Professor</b> in Department of Civil Engineering, School of Technology, Maulana Azad National Urdu University (Central University), Polytechnic, Cuttack, Odisha, India.  |
| AREA OF SPECIALIZATION   | Construction and Contract Management, Project and Risk Management, Building Materials – Insulation, Building Envelope, Energy Efficiency, MCDM, Construction Labour Productivity and statistics, Building Information Modelling.   |
| ONGOING ACADEMIC<br>RESEARCH/PROJECTS                          | <ul style="list-style-type: none"><li>▪ Development of sustainable material selection criteria model for buildings using LCA approach.</li><li>▪ Varying combinations of green materials and its various environmental aspects during Cradle-to-Grave building stage.</li></ul>  |
| INNOVATION WITH FIELD<br>OF STUDY AND<br>COLLABORATIVE EFFORTS | Collaborating with Dr. Ashwin Narendra Raut (Associate Professor, KLEF - India) for research on Energy Efficiency of a Building.   |
| ACADEMIC AND<br>ADMINISTRATIVE<br>EXPERIENCE                   | <p><b>ACADEMIC EXPERIENCE: -</b></p> <ul style="list-style-type: none"><li>▪ <b>ASSISTANT PROFESSOR</b><br/>Maulana Azad National Urdu University (Central University), Cuttack, Odisha.<br/>(April 2023 - Present)</li><li>▪ <b>ASSISTANT PROFESSOR</b><br/>Lord's Institute of Engineering and Technology, Hyderabad, Telangana.<br/>(April 2022 – April 2023)</li><li>▪ <b>ASSISTANT PROFESSOR</b><br/>Narayana Engineering College, Gudur, Nellore Dt. Andhra Pradesh.<br/>(August 2021 - March 2022)</li></ul> <p><b>ADMINISTRATIVE EXPERIENCE: -</b></p> <ul style="list-style-type: none"><li>▪ Exam Branch Coordinator</li><li>▪ M. Tech Course Coordinator</li><li>▪ B. Tech Class In-charge</li><li>▪ Member of NAAC Criterion-6</li><li>▪ Member of NBA Criterion-4</li><li>▪ In-charge of Photography and Videography Cell</li><li>▪ Time table coordinator</li><li>▪ In-charge of Women Cell</li><li>▪ Member of Grievance cell</li><li>▪ Head Mentor</li></ul> |

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|   | <ul style="list-style-type: none"> <li>▪ In-charge of Laboratories</li> </ul>  |
| EDUCATIONAL QUALIFICATION   | <ul style="list-style-type: none"> <li>▪ <b>MASTER OF TECHNOLOGY (M.TECH.), 2021</b><br/>Specialization of CTM, Department of Civil Engineering, KL Deemed To Be University, Guntur, Andhra Pradesh.</li> <li>▪ <b>BACHELOR OF TECHNOLOGY (B.TECH.), 2018</b><br/>Department of Civil Engineering, SR University, Warangal, Telangana.</li> </ul>  |
| TEACHING PROFICIENCY  | Civil Engineering (Construction Management, Environmental Engineering, Building Materials, Construction Practices, Surveying and Geomatics, Concrete Technology)   |
| RESEARCH PUBLICATION DETAILS                                      | <ul style="list-style-type: none"> <li>▪ <b>“COMPARATIVE ANALYSIS OF VARIOUS INSULATION MATERIALS FOR BUILDING ENVELOPE COMPONENTS”</b>. Citation N Sugandha Rathan et al. SCOPUS Index - IOP Publications – 2021.<br/>DOI 10.1088/1755-1315/822/1/012014</li> <li>▪ <b>“ADOPTING COMBINATION OF PASSIVE DESIGN STRATEGIES TO OPTIMIZE BUILDING ENERGY NEEDS”</b>. Citation Navya K, Raut A, Chilukuri S, Rathan NS. SCI Index – IOP Publications – 2021.<br/>DOI 10.1088/1757-899X/1197/1/012064</li> </ul>   |
| DETAILS OF CONFERENCE/SEMINAR /WORKSHOP/ FDP (ATTENDED/PRESENTED) | <ul style="list-style-type: none"> <li>▪ Attended several workshops conducted at S.R. Institute and had taken active participation in conducting techno trends (Artemis-2K16) as a coordinator.</li> <li>▪ Attended and organized several workshops, webinars, conferences conducted on behalf of KL University.</li> <li>▪ Attended and presented a research paper in ICCSI Conference, 2021 conducted on behalf of SJB Institute of Technology, Bangalore.</li> <li>▪ Organized and attended various Technical Workshops, Webinars and Co-curricular Activities for students being while working as a faculty.</li> </ul>                            |
| DETAILS OF KEYNOTE SPEAKER/RESOURCE PERSON/ SESSION CHAIR ETC.    | Delivered a lecture on “Problem Solving and Decision Making” at FDP organised by LIET in association with ICT Academy in virtual mode.   |
| ACHIVEMENTS   | <ul style="list-style-type: none"> <li>▪ Silverado at M. Tech (CTM Specialization)</li> <li>▪ Best Intern Award for Internship on “Elements of Irrigation Engineering” by I&amp;CADD Department, Irrigation Division, Govt. of Telangana.</li> </ul>   |
| DETAILS OF SUPERVISION (M.PHIL/M.TECH/P.HD.)                      | <p>M.Tech Supervisor For &amp; On:</p> <ul style="list-style-type: none"> <li>▪ Md. Abdul Wasay on “Construction 4.0 - The Next Revolution in the Construction Industry”.</li> <li>▪ Md. Mohsin on “Appraisal of the Impact of Delays in Project Delivery in Pre-Cast Construction Industry”.</li> <li>▪ R. Ajith Reddy on “The Framework for Effective Human Resource Management at Construction Site”.</li> <li>▪ Numaan Ahmed on “Minimization of Wastage in Construction Building”.</li> <li>▪ Syed Abu Obaida Nomaan on “Risk Management in Construction Industry”.</li> <li>▪ Syed Mustafa Quadri on “Building Information Modeling”.</li> </ul> |

PROFESSIONAL  
MEMBERSHIPS

- American Society of civil engineers (ASCE)
- Chartered Institute of Building (CIOB)
- Royal Institution of Chartered Surveyors (RICS)
- International Association of Engineers (IAENG)

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PERSONAL DETAILS

**Father's Name** : Prof. N.Kanakarathnam  
**Date of Birth** : 12<sup>th</sup> October, 1996.  
**Gender** : Female  
**Marital Status** : Unmarried  
**Nationality** : Indian  
**Language Known** : English, Hindi, Telugu.

Date: 07<sup>th</sup> June, 2023.  
Place: Cuttack, Odisha

*(Nukapangu Sugandha Rathan)*

[Last update on: 07<sup>th</sup> June 2023]