



## Biography

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### Md. Jewel Rana

Assistant Professor

**Research Area** Information Technology in  
Construction Sustainable Building Design

## Education

### B. Sc. Engineering (BECM)

Khulna University of Engineering & Technology, Bangladesh (2014-2018)

### Higher Secondary Certificate

Jessore Cantonment College, (2012-2013)

### Secondary School Certificate

Meherpur Govt. High School, (2006-2011)

## Research Interest

### Information Technology in Construction

Building Information Modeling (BIM)

Automation in Construction

### Sustainable Building Design

Energy Efficient Building

Energy Modeling and Simulation

Net Zero Energy Building (NZEB)

Passive Design Technologies

## Publication

### Books

### Journals

8. , " Evaluating the effects of recycled aggregate size and concentration on properties of high strength sustainable concrete," **Journal of King Saud University - Engineering Sciences**, Elsevier
7. Datta, S. D. , Rana, M. J. , Assafi, M. N. and Ahmed, N. J. M. & S. , " Investigation on the generation of construction wastes in Bangladesh," **International Journal of Construction Management**, Taylor & Francis
6. Hoque, M. I. , Safayet, M. A. , Rana, M. J. , Bhuiyan, A. Y. and Quraishy, G. S. , " Analysis of construction delay for delivering quality project in Bangladesh," **International Journal of Building Pathology and Adaptation**, Emerald Publishing Limited
5. Rana, M. J. , Hasan, M. R. and Sobuz, M. H. R. , " An Investigation on the Impact of Shading Devices on Energy Consumption of Commercial Buildings in the Contexts of Subtropical Climate," **Smart and Sustainable Built Environment**, Emerald Publishing
4. Rana, M. J. and Hasan, M. R. (December, 2020) , " The effects of thermal insulation on energy consumption in small office buildings in the context of subtropical monsoon climate," **Journal of Construction Engineering, Management & Innovation** , Golden Light Publishing, vol3, no.4, pp.275-292
3. Rana, M. J. , Hasan, M. R. , Sobuz, M. H. R. and Sutan, N. M. (11th November 2020 (Online)) , " Evaluation of Passive Design Strategies to Achieve NZEB in the Corporate Facilities: The Context of Bangladeshi Subtropical Monsoon Climate," **International Journal of Building Pathology and Adaptation**, Emerald Publishing
2. Rana, M. J. , Hasan, M. R. and Tam, M. H. R. S. & V. W. Y. (24 Aug 2020.) , " Impact assessment of window to wall ratio on energy consumption of an office building of subtropical monsoon climatic country Bangladesh," **International Journal of Construction Management**, Taylor & Francis
1. Rana, J. and Rahman, M. (March 2020) , " Building energy performance optimization towards net zero energy building using passive solution technologies and building information modeling at design phase," **Journal of Construction Engineering, Management & Innovation**, Golden Light Publishing, vol3, no.1, pp.29-51

### Conference