

# SANA MUQEEM

Marital Status: Married  
Telephone #: 021-99261261

## EDUCATION:

- Ph.D.** Construction Engineering and Management  
Universiti Teknologi PETRONAS, Malaysia - 2012
- M.E** Engineering Management with specialization in Construction Management, NED University of Engineering & Technology Karachi, Pakistan – 2008
- B.E.** Urban and Infrastructure Engineering, NED University of Engineering & Technology Karachi, Pakistan – 2006
- H.S.C** P.E.C.H.S Government College for Women, Karachi – 2001
- S.S.C** New Day Secondary School, Karachi – 1999

## APPOINTMENTS:

- Nov 2008- Present** Assistant Professor, Department of Urban and Infrastructure Engineering, NED University of Engineering & Technology, Karachi-Pakistan
- Nov 2006 – Nov 2008** Lecturer, Department of Civil Engineering, NED University of Engineering & Technology, Karachi-Pakistan
- Feb 2006 – Oct 2006** Project Manager, T.S. Builders, Karachi-Pakistan

## TEACHING EXPERIENCE:

### **NED University of Engineering & Technology, Karachi - Pakistan**

#### ***Taught the Following Courses to Bachelors of Civil Engineering:***

- CE-104 – Engineering Materials
- CE-103 – Engineering Surveying – I
- CE-203 – Engineering Drawing – II

#### ***Taught the Following Courses to Bachelors of Urban and Infrastructure Engineering:***

- UE-211 – Engineering Drawing and Drafting
- UE-307 – Civil Works Quantity and Cost Estimation

***Taught the Following Course to Bachelors of Telecommunication Engineering:***

- CE-105 – Engineering Surveying

***Taught the Following Course to Bachelors of Electrical Engineering:***

- CE-105 – Engineering Surveying

**Universiti Teknologi PETRONAS, Malaysia**

***Taught the Following Courses to Bachelors of Civil Engineering:***

- OCM – Operation and Construction Management
- P & S – Probability and Statistics

**RESEARCH PROJECTS SUPERVISED**

- Development of Production Rate Database for External Works, Department of Civil Engineering Universiti Teknologi PETRONAS
- Development of Production Rates Database for IBS Systems, Department of Civil Engineering Universiti Teknologi PETRONAS
- Development of Production Rates Database for Architectural Works, Department of Civil Engineering Universiti Teknologi PETRONAS
- Prioritizing the Factors Influencing the Labor Production Rates, Department of Civil Engineering Universiti Teknologi PETRONAS
- Prioritizing the Factors Affecting the Time and Cost Efficiency in IBS Projects in Malaysia, Department of Civil Engineering Universiti Teknologi PETRONAS

## RESEARCH EXPERIENCE

### Indexed Journal Publications

1. Arazi Bin Idrus, **Sana Muqeem**, Saiful bin Zakaria and Wira Azizi. “Development of Production Rates Database System for IBS components in Malaysian Construction Industry” Canadian Journal on Environmental, Construction and Civil Engineering. 2011. Vol. 2, No. 1 ISSN: 1923-1660.
2. Arazi Bin Idrus, **Sana Muqeem**, Saiful bin Zakaria, Muhamad Nazim bin Mohamad Nawi “Development of Production Rates Database for Substructure Activities by Direct Observations” Journal of Modern Applied Sciences (Canada); included in **Scopus**. 2011. Vol 5 No:11. ISSN 1913-1844.
3. **Sana Muqeem**, Arazi Bin Idrus, Mohd Faris Khamidi, Jale Ahmad and Saiful bin Zakaria “Construction labor Production Rates modelling using Artificial Neural Network “Journal of Information Technology in Construction (Australia). 2011. Vol. 16, pg. 713-726. ISSN 1874-4753.
4. Arazi Bin Idrus, **Sana Muqeem**, Yap Keem, Mohd Faris Khamidi, Mohd Saiful Zakaria. “Estimation of Production rates for Formwork Installation using Fuzzy Expert Systems”. Global Journal of researches in engineering Civil and Structural engineering Volume 12 Issue 1 Version 1.0 January 2012.
5. **Sana Muqeem**, Mohd Faris Khamidi, Arazi Bin Idrus and Muhammad Saqib, “Estimating Labor Productivity Using Artificial Neural Network”. Journal of Management Procurement and Law. Elsevier. Inpress

### Conference Publications

6. **Sana Muqeem**, Arazi Bin Idrus, Mohd Faris Khamidi, Mohd Saiful Zakaria . 2010. “Measuring Production Rates for Concrete Building Structure Works through Activity Sampling”. International Conference on Sustainability and Building.

7. **Sana Muqeem**, Arazi Bin Idrus, Muhammad Saffuan Muhammad Salleh, Muhammad Saqib. 2010. “Development of Production Rate Database for External Works in Malaysian Construction Industry” Second International Conference on Construction in Developing Countries (ICCIDC–II) held in August 2010 in Cairo Egypt Page number: 395-403.
8. Arazi Bin Idrus, **Sana Muqeem**, Mohd Faris Khamidi, Zairul A’ziya Bt Zulkefli. 2010. “Development of Production Rates Database for the Pre-cast Construction Works” “2010 International Conference on Construction and Project Management (ICCPM 2010)” held in Nov 2010 In China. Page number: 312-316.
9. **Sana Muqeem**, Arazi Bin Idrus, Mohd Faris Khamidi, Saiful Bin Zakaria. 2010. “Prediction Modelling of Construction Labor Production Rates using Artificial Neural Network” 2011 2nd International Conference on Environmental Science and Technology (ICEST 2011) held in Feb 2011 In Singapore. Page number: 32-36.
10. **Sana Muqeem**, Arazi Bin Idrus, Mohd Faris Khamidi, Saiful Bin Zakaria, Muhammad Saqib. 2011.” Prediction of Construction Labor Production rates for Malaysian Construction Industry using ANN”. Sixth International Conference on Construction in 21st Century (CITC- VI) . Kuala Lumpur. Page number: 213-218.
11. Arazi Idrus, Mohd Saiful Zakaria and **Sana Muqeem**. 2010. “Development of Production Rates Database for Construction Industry by Direct Observation”. Seminar and Meeting of 9th Management in Construction Researchers’ Association (MICRA2010). Page number: 223-235.
12. **Sana Muqeem**, Arazi Idrus, Mohd Faris Khamidi, Mohd Saiful Zakaria. 2011. “Development of Construction Labor Productivity Prediction Model Using Artificial Neural Network”. MICRA 2011, 10th Annual Meeting and Seminar in Kuala Lumpur. (MICRA2011). Page number: 223-235.
13. Arazi Idrus, **Sana Muqeem**, Mohd Faris Khamidi, Mohd Saiful Zakaria, Muhammad Saqib. 2011. “Estimating Construction Labor Productivity for Concreting Activity using Artificial Neural Network”. 2011 International Conference on Computer and Computational Intelligence (ICCCI 2011). Kuala Lumpur, Page number 502-507.

14. Sana Muqeem, Arazi Idrus, Mohd Faris Khamidi, Yap Keem Siah, Muhammad Saqib. 2012. “Application of Fuzzy Expert Systems for Construction Labor Productivity Estimation”. 2012 International Conference on Computer and Information Sciences (ICCIS). Page Number: 506-511.
15. Sana Muqeem, Arazi Idrus, Mohd Faris Khamidi, 2012, “Predicting Construction Labor Productivity using Artificial Neural Network”. International Conference on Civil, Offshore and Environmental Engineering (ICCOE). Kuala Lumpur, Page Number: 101-106.

#### **TRAININGS:**

- Neural Network Applications using MATLAB – 2010
- Fuzzy logic Applications using MATLAB – 2010
- Neuro-fuzzy Applications using MATLAB – 2010
- Conventional Offshore Structures and Pipelines – 2011

#### **COMPUTER SKILLS**

- AutoCAD 2007
- Certified course of PRIMAVERA P6 Version 6.0
- MS PROJECT 2007
- MATLAB 2009a
- Endnote X4

#### **PROFESSIONAL AFFILIATIONS**

- Pakistan Engineering Council (PEC), Pakistan

#### **REFERENCES**

Will be furnished upon request

