

MUHAMMAD SAQIB

Assistant Professor (On Study Leave)

Department of Civil Engineering, NED University of Engineering & Technology Karachi, Pakistan

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URL: http://www2.fiu.edu/~citc/Muhammad_Saqib.htm

URL: <http://fiu.academia.edu/MuhammadSaqib>

Proven expertise in following areas

Last Updated: 23 November 2011

- Advanced Project Planning and Scheduling
- Project Management
- Construction Management
- Computer Aided Project Planning, Scheduling and Control
- Strategic Management
- Risk Management
- Total Quality Management
- Database Management
- Software Engineering
- Bid Procurement
- Health, Safety and Environmental Management

EDUCATION

Ph.D.	Construction Engineering and Management (FIU, USA) (In Progress started in Spring 2010)	
M. Engg.	Engineering Management (NED University Karachi, Pakistan)	2008
MS	Information Technology (PIMSAT)	2006
MCS	Computer Science (University of Karachi, Pakistan)	2004
B.E	Civil Engineering (NED University Karachi, Pakistan)	1999

APPOINTMENTS

Jan 2010 – Present	Ph.D. Scholar and Graduate Researcher, Department of Construction Management, FIU, USA
April 2008 – Present	Assistant Professor, Department of Civil Engineering, NED University, Pakistan (BPS-19) (On Study Leave)
Jan 2007 – April 2008	Lecturer, Department of Civil Engineering, NED University, Pakistan (BPS-18)
Sep 2005 – Dec 2006	Lecturer, Department of Civil Engineering, NED University, Pakistan (BPS-17)
Jan 2003 – Aug 2005	Manager Planning and Development, Trojan Engineering and Management Services (TEAMS)
Jan 2003 – Aug 2005	Training Manager, Institute Of Engineering & Management (IEM)
Mar 2000 – Dec 2002	Planning Engineer, Naveed-ur-Rehman Channa & Co.

TEACHING AND TRAINING EXPERIENCE

UNIVERSITY TEACHING

NED University of Engineering & Technology, Karachi- Pakistan

Graduate

Construction Management:

- CE590 - Advanced Topics in Project Management (Spring Semester 2009)

- *EM504 - Project Management Frame Work and Tools (Fall Semester 2009)*

Undergraduate

Civil Engineering:

- *CE-406 - Construction Planning and Management (Final Year, 2006, 2007, 2008, 2009) CE303 - Engineering Construction (Third Year, 2006, 2007, 2008, 2009)*
- *CE-202 - Introduction to Computing (Second Year, 2008)*

Urban & Infrastructural Engineering:

- *CE-406 - Construction Planning and Management (Final Year, 2006, 2007, 2008)*
- *CE-318 - Principles of Engineering Construction (Third Year, 2006, 2007, 2008)*
- *CE-202 - Introduction to Computing (Second Year, 2008)*

Petroleum Engineering:

- *PE-205 - Computer Programming and Applications (Second Year, 2008)*

Electrical Engineering:

- *CE102 - Engineering Surveying (First Year, 2006)*

Mechanical Engineering:

- *CE102 - Engineering Surveying (First Year, 2006)*

B. Tech (Conversion Course)

Civil Engineering:

- *CE6 - Civil Engineering Drawing and Graphics (Fall Semester 2008)*
- *CE6 - Civil Engineering Drawing and Graphics (Fall Semester 2009)*

Florida International University, Miami- USA

Graduate Courses (Assisted)

Construction Management:

- *BCN5728 - Principles of Construction Scheduling (Spring Semester 2010)*
- *BCN5755 - Construction Financial Management (Spring Semester 2010)*
- *BCN5738 - Construction Safety Management (Summer C Semester 2010)*
- *BCN5772 - Management Construction Organization (Fall Semester 2010)*
- *BCN5906 - CII (Construction Industry Institute) Seminar (Fall Semester 2010)*
- *BCN5774 - Topics in International Construction (Spring Semester 2011)*
- *BCN5784 - Construction Information Systems (Summer Semester 2011)*

Graduate Courses (Assisting)

Construction Management:

- *BCN5772 - Management Construction Organization (Fall Semester 2011)*

Graduate Courses (Spring 2012)

Construction Management:

- *BCN5774 - Topics in International Construction (Spring Semester 2012)*

Undergraduate Courses (Assisted)

Construction Management:

- BCN4724 - Construction Scheduling - II (Summer A Semester 2010)

SHORT COURSES TAUGHT

NED University of Engineering & Technology, Karachi- Pakistan

- Hands-on workshop on Mastering Microsoft PROJECT Professional 2003, conducted at Department of Civil Engineering, 2007
- Hands-on workshop on Mastering Microsoft PROJECT Professional 2007, conducted at Department of Mechanical Engineering, 2008
- A 2 days course on Advanced Project Management organized by Centre for Continuing Engineering Education (CCEE) at NED Academy, Karachi, 2009

Institute of Engineering Management

- Training delivered in the discipline of Project Management: *Fundamentals of Project Management, Computer Aided Project Management*

RESEARCH EXPERIENCE

PEER REVIEWED CONFERENCE PUBLICATIONS

1. *"Benchmarking of Client's Financial Management Practices in the Construction Sector of Pakistan"*, International Conference on Structural Engineering, Construction and Management (ICSECM 2011), Kandy, Central, Sri Lanka, December 16-18, 2011 (Accepted for Publication)
2. *"Quantifying Measurement of Successful Construction Project Performance – A Project Manager's Perspective"*, Six International Conference on Construction in the 21st Century: Construction Challenges in the New Decade (CITC-VI 2011), Kuala Lumpur, Malaysia, July 5-7, 2011, (Published)
3. *"Public Private Partnership in U.S. Infrastructure Projects: Port of Miami Tunnel Case Study"*, Six International Conference on Construction in the 21st Century: Construction Challenges in the New Decade (CITC-VI 2011), Kuala Lumpur, Malaysia, July 5-7, 2011, (Published)
4. *"Prediction of Construction Labor Production Rates for Malaysian Construction Industry Using ANN"*, Six International Conference on Construction in the 21st Century: Construction Challenges in the New Decade (CITC-VI 2011), Kuala Lumpur, Malaysia, July 5-7, 2011, (Published)
5. *"Empirical Study of Financial Accounting and Cash Flow Management Practices of Construction Contractors in Pakistan"*, Second International Conference on Construction in Developing Countries (ICCIDC-II) "Advancing and Integrating Construction Education, Research & Practice", Cairo, Egypt, August 3-5, 2010, 107–118
6. *"Bid Procurement Practices in Pakistani Construction Industry – An Assessment of Bidding Requirements, Bidder Qualification & Evaluation Criteria, and Client Satisfaction Index on Traditional Design-Bid-Build Projects"*, Second International Conference on Construction in Developing Countries (ICCIDC-II) "Advancing and Integrating Construction Education, Research & Practice", Cairo, Egypt, August 3-5, 2010, 230–237
7. *"Risks in Construction – An Empirical Study of the Responsibility Allocation of Risks and Risk Control Measures in the Pakistani Construction Industry"*, Second International Conference on Construction in Developing Countries (ICCIDC-II) "Advancing and Integrating Construction Education, Research & Practice", Cairo, Egypt, August 3-5, 2010, 291–298
8. *"Delay Management Practices in Pakistani Construction Industry – Delay Avoidance and Mitigation Strategies"*, Second International Conference on Construction in

- Developing Countries (ICCIDC-II) "Advancing and Integrating Construction Education, Research & Practice", Cairo, Egypt, August 3-5, 2010, 299-306
9. *"Road Safety Management – A Multi Factorial Phenomenon for Road Traffic Accidents in Karachi Pakistan"*, Second International Conference on Construction in Developing Countries (ICCIDC-II) "Advancing and Integrating Construction Education, Research & Practice", Cairo, Egypt, August 3-5, 2010, 337-344
 10. *"Client Satisfaction Index in the Pakistani Construction Industry"*, Second International Conference on Construction in Developing Countries (ICCIDC-II) "Advancing and Integrating Construction Education, Research & Practice", Cairo, Egypt, August 3-5, 2010, 367-375
 11. *"Developing Safety Culture in Pakistani Construction Industry – Site Safety Implementation and Safety Performance Improvement"*, Second International Conference on Construction in Developing Countries (ICCIDC-II) "Advancing and Integrating Construction Education, Research & Practice", Cairo, Egypt, August 3-5, 2010, 376-383
 12. *"Development of Production Rate Database for External Works in Malaysian Construction Industry"*, Second International Conference on Construction in Developing Countries (ICCIDC-II) "Advancing and Integrating Construction Education, Research & Practice", Cairo, Egypt, August 3-5, 2010, 395-404
 13. *"General Construction Project Management Practices in the Pakistani Construction Industry – Extent of Application of Project Management Functions, Tools, Techniques and Systems"*, Second International Conference on Construction in Developing Countries (ICCIDC-II) "Advancing and Integrating Construction Education, Research & Practice", Cairo, Egypt, August 3-5, 2010, 973-978
 14. *"Development of Guidelines for Road Safety Audit in Pakistan: Case Studies"*, "Third International Symposium on Infrastructure Engineering in Developing Countries (IEDC 2010) and 1st International Conference on Sustainable Transportation & Traffic Management", Karachi, Pakistan, July 1-3, 2010, 141-151
 15. *"Desirable Attributes and Skills for Graduating Construction Management Students"*, International Proceedings of the 46th Annual Conference hosted by Wentworth Institute of Technology Boston, Massachusetts, April 7-10, 2010
 16. *"Factors Affecting Success of Construction Projects In Pakistan"*, Proceedings of the 2nd Construction Industry Research Achievement International Conference (CIRAIC 2009), Kuala Lumpur, Malaysia, November 3-5, 2009.
 17. *"Ranking Construction Superintendent Competencies and Attributes Required for Success in Pakistani Construction Industry"*, 2009. Fifth International Conference on Construction in the 21st Century: Collaboration and Integration in Engineering, Management and Technology (CITC-V 2009), Istanbul, Turkey, May 20-22, 694-701
 18. *"Quality Culture Auditing for Construction Contractors in Pakistan"*, 2009. Fifth International Conference on Construction in the 21st Century: Collaboration and Integration in Engineering, Management and Technology (CITC-V 2009), Istanbul, Turkey, May 20-22, 802-810
 19. *"Finding Ways for Enhancing Postgraduate Level Education in Construction Management in Pakistan"* has been published in proceedings of First International Conference on Construction in Developing Countries (ICCIDC-I-2008), Karachi, Pakistan, August 4-5, 2008, 33-41
 20. *"An Assessment of General Trends Adopted for Bidding and Procurement in the Construction Industry of Pakistan"* has been published in proceedings of First International Conference on Construction in Developing Countries (ICCIDC-I-2008), Karachi, Pakistan, August 4-5, 2008, 153-160
 21. *"Assessment of Critical Skills for Project Managers in Pakistani Construction"* has been published in proceedings of First International Conference on Construction in Developing Countries (ICCIDC-I-2008), Karachi, Pakistan, August 4-5, 2008, 221-234
 22. *"Assessment of Critical Success Factors for Construction Projects in Pakistan"* has been published in proceedings of First International Conference on Construction in Developing Countries (ICCIDC-I-2008), Karachi, Pakistan, August 4-5, 2008, 392-404

23. "Knowledge Management in U.S. Construction Industry: Current Status and Future Directions", 2008. 5th International Conference on Innovation in Architecture, Engineering and Construction (ACE-2008), June 23rd-25th 2008, Antalya, Turkey.
24. "Delays in Construction – An Empirical Study of Contractors' Perceptions in Pakistan Construction Industry", 2007. Fourth International Conference on Construction in the 21st Century: Accelerating Innovation in Engineering, Management and Technology (CITC-IV 2007), Gold Coast, Australia, July 11-13, 256-270

JOURNAL PUBLICATION

1. "State of Adoption and Implementation of Knowledge Management Strategies In The U.S. Construction Industry". 2009. International Journal of Architectural Engineering and design Management (AEDM), Earthscan Publication.

RESEARCH PROJECT

Worked as a part of USAID funded research project entitled: "Developing a Strategic Model for Improvement of Construction Project Management Education, Research, and Practice in Pakistan" currently being undertaken jointly by the Department of Civil Engineering, NED University of Engineering and Technology, Pakistan and Department of Construction Management, Florida International University, USA.

SUPERVISED PROJECTS

- Successfully supervised the following final year projects including: 2007
- *Bid Procurement Systems in Pakistan Construction Industry: An Assessment of Existing Systems and a Recommendation for Improvement*
 - *The Financial Management in Construction Projects in Pakistan: A Case Study Approach*
- Successfully supervised one final year Project including: 2008
- *Development of a Partially Integrated Set of Construction Management Improvement Measures for the Construction Sector of Pakistan*
- Successfully supervised two final year Projects including: 2009
- *Evolution of Project Management Practice in Pakistan*
 - *Cost And Time Overrun Due To Delays In Building Construction Projects Of Pakistan (Case Studies)*

RETROFITTING OF HIGHWAY BRIDGE STRUCTURE

Final year Project, NED University of Engineering & Technology- Pakistan

- A study of deteriorated Sutleg Bridge, Evaluation of causes of deterioration and application of External Prestressing as a retrofitting technique.

ONLINE HOSPITAL INFORMATION SYSTEM

Masters Final Project, University of Karachi - Pakistan

- To develop Online Hospital Information System which save the time of hospital employees and regular patients of the hospital.

A STEP TOWARDS SAFER ENVIRONMENT

- An environmental survey conducted on the unhygienic conditions imposed by Lyari River on the nearby habitants and to propose a framework to reduce the pollution.

RENOVATION OF INFRASTRUCTURE

- A short course conducted by the Canadian Society for Civil Engineers (CSSE) in collaboration with the Institute of Engineers Pakistan (IEP).

MEMBER REVIEW PANEL

- Journal paper reviewer for the *Proceedings of ICE Journal - Management, Procurement and Law*. Management, Procurement and Law is published by the Institution of Civil Engineers. (<http://www.ice.org.uk>)
- Journal paper reviewer for NED University Journal of Research. This journal is published by NED University of Engineering and Technology, Karachi. (<http://www.neduet.edu.pk/NED-Journal/index.html>)
- Journal paper reviewer for Journal of Construction in Developing Countries. It is CIB encouraged journal. (<http://www.usm.my/jcdc/hbp.htm>)

EDITOR CONFERENCE PROCEEDINGS

- Editor conference Proceeding "*Second International Conference on Construction in Developing Countries-ICCIDC-II*" jointly organized by Department of Civil Engineering, NED University of Engineering & Technology, Karachi, Florida International University Miami, USA, and Misr for Services & Maintenance (MSM) Construction Engineering Services Cairo, Egypt, August 3-5, 2010. (<http://www2.fiu.edu/~iccidc>)
- Editor conference Proceeding "*First International Conference on Construction in Developing Countries-ICCIDC-I*" jointly organized by Department of Civil Engineering, NED University of Engineering and Technology, Karachi and Florida International University Miami, USA, August 4-5, 2008. (<http://www.neduet.edu.pk/ICCIDC-I/Home.htm>)

MODERATOR

- Member organizing committee of the "*Local Workshop on Improving Construction Project Management Practices in Pakistan: Assessment of Research Findings and The Way Forward*" organized by Department of Civil Engineering, NED University of Engineering and Technology held on August 29, 2007 at NED University of Engineering and Technology Karachi, Pakistan
- Member organizing committee of the "*Local Workshop on Advances in Construction Engineering, Management and Implementation Practices: the US Experience*" organized by Department of Civil Engineering, NED University of Engineering and Technology held on January 06, 2007 at NED University of Engineering and Technology Karachi, Pakistan

WEBSITE DEVELOPMENT

- An official website for an International Conference entitled "*Six International Conference on Construction in the 21st Century-CITC-VI: Construction Challenges in the New Decade*" is developed and launched with the URL: <http://www.citc.ecu.edu>
- An official website for an International Conference entitled "*Second International Conference on Construction in Developing Countries-ICCIDC-II: Advancing and Integrating Construction Education, Research and Practice*" is launched with the URL: <http://www2.fiu.edu/~iccidc>
- An official website for an International Conference entitled "*First International Conference on Construction in Developing Countries-ICCIDC-I: Advancing and Integrating Construction Education, Research and Practice*" is developed and launched with the URL: <http://www.neduet.edu.pk/Civil/ICCIDC-I/Home.htm>
- An official website for an International Workshop entitled "*International Workshop - Cement Based Materials and Civil Infrastructure-CBM-CI*" is developed and launched. URL: <http://www.neduet.edu.pk/Civil/CBM-CI/Home.html>
- An official website for an American Concrete Institute Pakistan Chapter (ACI-Pakistan Chapter) is developed and launched. This website provides facilities to local civil engineers to register themselves and be the members of ACI Pakistan Chapter. URL : <http://www.acipakistan.org>

- An official website of Department of Civil Engineering is uploaded on NED Domain with URL: <http://www.neduet.edu.pk/Civil/civil.html>

SEMINARS, CONFERENCES AND WORKSHOPS ORGANIZED

- Conference Coordinator and member organizing committee of *“Third International Conference on Construction in Developing Countries-ICCIDC-III”* jointly organized by Department of Construction Management, College of Technology and Computer Science (TECS), East Carolina University (ECU), USA, Department of Civil Engineering, NED University of Engineering, and Technology, Karachi - Pakistan, Mcwhorter School Of Building Science, Auburn University Auburn, Alabama - USA and Florida International University Miami - USA and will be held on July 4-6, 2012, Bangkok – Thailand.
- Conference Lead Coordinator & Webmaster and member organizing committee of *“Six International Conference on Construction in The 21st Century-CITC-VI”* jointly organized by East Carolina University, USA, Universiti Teknologi Mara, Malaysia and Florida International University Miami, USA will be held on July 5-7, 2011, Kuala Lumpur – Malaysia.
- Conference Lead Coordinator & Webmaster and member organizing committee of *“Second International Conference on Construction in Developing Countries-ICCIDC-II”* jointly organized by Department of Civil Engineering, NED University of Engineering, and Technology, Karachi, Florida International University Miami, USA and Misr for Services & Maintenance (MSM) Construction Engineering Services Cairo – Egypt and held on August 1-3, 2010, Cairo – Egypt.
- Program Coordinator, Conference Coordinator and member organizing committee of the *“First International Conference on Construction in Developing Countries-ICCIDC-I”* jointly organized by Department of Civil Engineering, NED University of Engineering and Technology, Karachi and Florida International University Miami, USA held on August 4-5, 2008 at Grand Mercure Karachi Airport Hotel Karachi, Pakistan.
- Member organizing committee of the *“International Workshop on Cement Based Materials and Civil Infrastructure CBM-CI”* organized by Department of Civil Engineering, NED University of Engineering and Technology held on December 10-11, 2007 at Pearl Continental Karachi, Pakistan.
- Member organizing committee of the *“Local Workshop on Improving Construction Project Management Practices in Pakistan: Assessment of Research Findings and The Way Forward”* organized by Department of Civil Engineering, NED University of Engineering and Technology held on August 29, 2007 at NED University of Engineering and Technology Karachi, Pakistan.
- Member organizing committee of the *“Local Workshop on Advances in Construction Engineering, Management and Implementation Practices: the US Experience”* organized by Department of Civil Engineering, NED University of Engineering and Technology held on January 06, 2007 at NED University of Engineering and Technology Karachi, Pakistan.
- Member organizing committee of the *“Local Workshop on Strengthening The Role of Academia in Development of Construction Engineering & Management Education in Pakistan”* organized by Department of Civil Engineering, NED University of Engineering and Technology held on August 10, 2006 at NED University of Engineering and Technology Karachi, Pakistan.

SEMINARS, CONFERENCES AND WORKSHOPS ATTENDED

- A Forum on *Florida Infrastructure Sustainability*, jointly organized by College of Engineering and Computing, Florida International University, Miami Florida and Titan America, LLC, Miami Florida, at Florida International University, February 18, 2010
- Fifth International Conference on Construction in the 21st Century: *Collaboration and Integration in Engineering, Management and Technology* (CITC-V 2009), Istanbul, Turkey, May 20-22, 2009

- First International Conference on Construction in Developing Countries-ICCIDC-I, *Advancing and Integrating Construction Education, Research and Practice*, Karachi, Pakistan, August 4-5, 2008
- 5th International Conference on *Innovation in Architecture, Engineering and Construction (ACE-2008)*, Antalya , Turkey, June 23-25, 2008
- International Workshop on *Cement Based Materials and Civil Infrastructure CBM-CI* organized by Department of Civil Engineering, NED University of Engineering and Technology held on December 10-11, 2007 at Pearl Continental Karachi, Pakistan
- Local Workshop on *Improving Construction Project Management Practices in Pakistan: Assessment of Research Findings and The Way Forward* organized by Department of Civil Engineering, NED University of Engineering and Technology held on August 29, 2007 at NED University of Engineering and Technology Karachi, Pakistan
- *International Conference on Construction Industry-ICCI* held on the occasion of Build Asia-2007 jointly organized by E-Commerce Gateway and NED University of Engineering and Technology, Karachi on August 28, 2007 at Expo Center Karachi
- Local Workshop on *Performance Based Earthquake Engineering and Applications to the Evaluation and Retrofit of existing buildings* organized by ACI-Pakistan Chapter held on July, 21, 2007 at NED University of Engineering and Technology, Karachi
- Local Workshop on *Advances in Construction Engineering, Management and Implementation Practices: the US Experience* organized by Department of Civil Engineering, NED University of Engineering and Technology held on January 06, 2007 at NED University of Engineering and Technology Karachi, Pakistan
- Local Workshop on *Strengthening The Role of Academia in Development of Construction Engineering & Management Education in Pakistan* organized by Department of Civil Engineering, NED University of Engineering and Technology held on August 10, 2006 at NED University of Engineering and Technology Karachi, Pakistan

PROFESSIONAL AFFILIATIONS

- American Concrete Institute (ACI), USA
- Lifetime Member of Pakistan Engineering Council (PEC), Pakistan
- Lifetime Member of NED Alumni Network (NEDAN), Pakistan
- American Society of Civil Engineers (ASCE), USA
- Member Building Construction, Pakistan Standards and Quality Control Authority (PSQCA), Pakistan
- Member Sigma Lambda Chi, USA

COMPUTATIONAL SKILLS

- *Project Management*: Primavera Project Management P6, Primavera
- Project Planner (Version 3.1 & Version 3.0), MS Project 2007, MS Project 2003
- *Engineering and Design*: Timberline, AutoCAD 2000, @ RISK, RoadCAL
- *Programming Languages/ Software Development*: C, C++, Visual C++, Java, Assembly, Pascal, FORTRAN, VB.NET, GW BASIC
- *Database/RDBMS*: Microsoft Access, SQL
- *Platforms*: Windows 95/98/2000/XP, MS-DOS
- *General Software Applications*: MS Office 2007 (Word, Excel, Power Point), IE, Netscape and Most Commercial Packages
- *Website Development Tools*: Microsoft Front Page, Adobe Dreamweaver

PERSONAL TRAITS

- Problem solver with strong analytical and numerical skills

- Strategic thinking abilities
- Proficient teaching skills
- Quick learner
- Dependable and reliable
- Enthusiastic and highly motivated self-starter
- Ambitious and efficient and like to do my assignment with eagerness
- Interact with people and believe in teamwork.
- Willing to accept challenges
- High personal integrity, and able to relate and create trust in all

PERSONAL

Father's Name: Mumtaz Khan (Late); Date of Birth: August 01; Marital Status: Married;
Nationality: Pakistani; Activities: Listening music, Reading;

REFERENCES

Will be furnished upon request.