



## CURRICULUM VITAE

**FARRUKH ARIF, Ph.D.**

Assistant Professor

Department of Civil Engineering

NED University of Engineering & Technology, Karachi, Pakistan

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### **EDUCATION**

Post-Doc	Florida International University, Miami, USA	Construction Engineering and Management	2014
Ph.D.	Florida International University, Miami, USA	Major area: Civil Engineering Dissertation: Construction Engineering	2013
M.E.M.	NED University of Engineering & Technology, Karachi, Pakistan	Major area: Engineering Management (Specialization Construction Management)	2008
B.E.	NED University of Engineering & Technology, Karachi, Pakistan	Major area: Civil Engineering	2007

### **ACADEMIC EXPERIENCE**

NED University of Engineering & Technology, Pakistan	Assistant Professor	Civil Engineering	November 2014- Present
Middle East Technical University, Ankara, Turkey	Visiting Scholar	Construction Engineering & Management Division	October 2016- November 2016
NED University of Engineering & Technology, Pakistan	Lecturer	Civil Engineering	April 2007- October 2014
Florida International University, USA	Graduate Research Assistant	OHL School of Construction	January 2010- December 2013

### **NON-ACADEMIC EXPERIENCE**

Ziauddin Ahmed & Company	Project Engineer	Civil Engineering	January 2007- April 2007
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## PUBLICATIONS

### Peer-Reviewed Journal Publications

1. Bayraktar, M., **Arif, F.**, Ponder, D., Prozzi, J., and Mahmoud, N. (2016). "Opportunities for Value Extraction Projects in Highway Rights-of-Way and Development of Feasibility Assessment Tool." *J. Constr. Eng. Manage.* , [10.1061/\(ASCE\)CO.1943-7862.0001080](https://doi.org/10.1061/(ASCE)CO.1943-7862.0001080) , 04016023. (Impact Factor = 0.867)
2. **Arif, F.**, Bayraktar, M., and Chowdhury, A. (2015). "Decision Support Framework for Infrastructure Maintenance Investment Decision Making." *J. Manage. Eng.* , [10.1061/\(ASCE\)ME.1943-5479.0000372](https://doi.org/10.1061/(ASCE)ME.1943-5479.0000372) , 04015030. (Impact Factor = 1.11)
3. **Arif, F.**, Lodi, S.H., Azhar, N. (2015). "Factors influencing accuracy of construction project cost estimates in Pakistan: Perception and reality." *International Journal of Construction Management (IJCM)*, Taylor and Francis, 15(1), pp. 59-70, DOI:10.1080/15623599.2015.1012141 (Impact Factor = 0.11)
4. Bayraktar, M., **Arif, F.**, Ozen, H., and Tuxen, G. (2015). "Smart Parking-Management System for Commercial Vehicle Parking at Public Rest Areas." *J. Transp. Eng.*, 141(5), 04014094. (Impact Factor = 0.877)
5. Naderpajouh, N., Hastak, M., Gokhale, S., Bayraktar, M., Iyer, A., and **Arif, F.** (2015). "Counterfeiting Risk Governance in the Capital Projects Supply Chain." *J. Constr. Eng. Manage.*, 141(3), 04014084. (Impact Factor = 0.867)
6. **Arif, F.** and Morad, A. (2014). "Concurrent Delays in Construction: International Legal Perspective." *J. Leg. Aff. Dispute Resolut. Eng. Constr.*, 6(1), 04513001.
7. Bayraktar, M.E. and **Arif, F.** (2013). "Venture Capital Opportunities in Green Building Technologies: A Strategic Analysis for Emerging Entrepreneurial Companies in South Florida and Latin America." *Journal of Manage. Eng.*, ASCE 29 (1), 79-85. (Impact Factor = 1.11)
8. Bayraktar, M.E., Cinkilic, C. and **Arif, F.** (2012). "Analysis of Disputes in Transportation Projects." *Journal of Risk Analysis and Crisis Response (JRACR) Special issue on Risk Management in Construction*, Atlantis Press, 2(4), 215 – 222.
9. Bayraktar, M.E., **Arif, F.**, Hastak, M., and Gad N.A. (2012). "The Judiciary's Use of the Critical Path Method to Resolve Construction Claims". *J. Leg. Aff. Dispute Resolut. Eng. Constr.*, ASCE, 4(1), 10–16.
10. Bayraktar, M.E., Owens C.R. and **Arif, F.** (2012). "Holding Homebuilders Liable for Personal Injury and Property Damage Caused by Defective Material: Chinese Drywall Case". *J. Leg. Aff. Dispute Resolut. Eng. Constr.*, ASCE, 4(2), 23–30.

## **Peer-Reviewed Conference Publications**

1. Azhar N., and **Arif F.** (2015) Factors Affecting BIM Use in Construction Organizations Proceedings of 7th International Civil Engineering Congress (ICEC-2015) "Sustainable Development through Advancements in Civil Engineering" June 12-13, 2015, Karachi, Pakistan, pp. 85-89, published by Institution of Engineers Pakistan (IEP).
2. **Arif F.**, Nadeem M.B., and Ahmed O. (2015) "An Overview of Claims Prevention Strategies in construction Projects of Pakistan." Proceedings of 7th International Civil Engineering Congress (ICEC-2015) "Sustainable Development through Advancements in Civil Engineering" June 12-13, 2015, Karachi, Pakistan , pp. 90-97, published by Institution of Engineers Pakistan (IEP).
3. **Arif F.**, Bayraktar, M.E. and Ahmad I. (2013). "Net-Zero Building Venture Capital Market: Current Opportunities and Emerging Trends for Entrepreneurial Companies" Central Europe towards Sustainable Buildings (CESB13) Sustainable Buildings and Refurbishment for Next Generations, 26-28 June 2013 Prague, Czech Republic.
4. **Arif F.**, Bayraktar, M.E. and Alyousef T. (2012). "Improving Construction Sustainability Using Innovative Construction Materials" 10<sup>th</sup> International Congress on Advances in Civil Engineering, 17-19 October 2012 Middle East Technical University, Ankara, Turkey, pp. 336 (Abstract Book).
5. **Arif F.**, Morad A., Bayraktar, M.E. (2012). "Concurrent Delays – A Comparative Analysis of U.S. and Australian Construction Legal Environment" The First Australasia and South-East Asia Structural Engineering and Construction Conference- Research, Development, and Practice in Structural Engineering and Construction. Perth, Australia, Nov 28-Dec 2, 2012.
6. **Arif F.** and Bayraktar, M.E. (2012). "Theoretical Framework for Transportation Infrastructure Asset Management Based on Review of Best practices." Proceedings of the Construction Research Congress 2012: Construction Challenges in a Flat World, West Lafayette, Indiana, United States May 21-23, 2012, pp. 2349-2358.
7. **Arif F.**, Azhar N. and Bayraktar M.E. (2012). "Strategic Management Concepts and Practices in Pakistan: A Construction Industry Perspective." Proceedings of the Construction Research Congress 2012: Construction Challenges in a Flat World, West Lafayette, Indiana, United States May 21-23, 2012, pp. 1530-1539.

8. **Arif F.**, Bayraktar M. E. and Grant S. (2011). "Comparison of Residential Roofing Alternatives Using Life Cycle Cost Assessment." Proceedings of the 6<sup>th</sup> International Structural Engineering and Construction Conference (ISEC-6), Zurich, Switzerland, June 21-26, 2011, pp. 111-116.
9. Panthi K., Ahmad I., Azhar N. and **Arif F.**, (2010). "Regional Analysis of International Construction Market Share and Impact of Financial Crisis." Proceedings of the 2<sup>nd</sup> International Conference on Construction In Developing Countries (ICCIDC-II) "Advancing and Integrating Construction Education, Research & Practice", Cairo, Egypt, August 3-5, 2010, pp. 962-972.
10. Bayraktar M.E., **Arif F.** and Cinkilic C, (2010). "Assessment of Disputes in Florida Transportation Projects and Lessons Learned." Proceedings of the 2<sup>nd</sup> International Conference on Construction In Developing Countries (ICCIDC-II) "Advancing and Integrating Construction Education, Research & Practice", Cairo, Egypt, August 3-5, 2010 pp. 954-961.
11. Farooqui R., **Arif F.**, Saqib M. and Lodi S.H., and (2010). "Risk in Construction-An Empirical study of the Responsibility Allocation of Risks and Risk Control Measures in the Pakistani Construction Industry." Proceedings of the 2<sup>nd</sup> International Conference on Construction in Developing Countries (ICCIDC-II) "Advancing and Integrating Construction Education, Research & Practice", Cairo, Egypt, August 3-5, 2010, pp. 291-298.
12. **Arif F.**, Lodi S.H., and Farooqui R. (2010). "Accuracy of Cost Estimates of Construction Projects in Pakistan." Proceedings of the 2<sup>nd</sup> International Conference on Construction in Developing Countries (ICCIDC-II)-Advancing and Integrating Construction Education, Research & Practice", Cairo, Egypt, August 3-5, 2010, pp.88-97.
13. Farooqui R. and **Arif F.** (2009). "Analysis of Safety Climate on Construction Sites in Pakistan." Proceedings of the CIBW 107 International Symposium on Construction in Developing Economies: Commonalities Among Diversities, Penang, Malaysia, October 5-7, 2009.
14. Farooqui R. and **Arif F.**, Ahmed S.M. and Lodi S.H. (2009). "Detailed Estimating Practices of Construction Firms in Pakistan." Proceedings of the 5<sup>th</sup> International Conference on Construction in the 21st Century (CITC-V)-Collaboration and Integration in Engineering, Management and Technology, Istanbul, Turkey, May 20-22, 2009, pp. 166-177.

15. **Arif F.**, Gazder U., Azhar N. and Farooqui R. (2008). "Construction Risk Insurance Practices in Pakistan." Proceedings of the 1<sup>st</sup> International Conference on Construction in Developing Countries (ICCIDC-I)-Advancing and Integrating Construction Education, Research & Practice", Karachi, Pakistan, August 4-5, 2008, pp. 177-184.
16. Farooqui R., Saqib M., **Arif F.**, and Lodi S.H. (2008). "An Assessment of General Trends Adopted For Bidding And Procurement in The Construction Industry of Pakistan." Proceedings of the 1<sup>st</sup> International Conference on Construction in Developing Countries (ICCIDC-I)-Advancing and Integrating Construction Education, Research & Practice", Karachi, Pakistan, August 4-5, 2008, pp. 153-160.
17. Farooqui R., **Arif F.** and Rafeeqi S.F.A. (2008). "Safety Performance in Construction Industry of Pakistan." Proceedings of the 1<sup>st</sup> International Conference on Construction in Developing Countries (ICCIDC-I)-Advancing and Integrating Construction Education, Research & Practice, Karachi, Pakistan, August 4-5, 2008, pp. 74-87.
18. Farooqui R., Ahmed S.M., **Arif F.** and Santos V.C.A. (2008). "An Integrated Approach to Innovation on Fast Track Construction Projects – A Case Study in the U.A.E." Proceedings of the 5th International Conference on Innovation in Architecture, Engineering and Construction", Antalya, Turkey, August 23-25, 2008.

### **Government, University, or Industrial Reports**

1. Report for Sind Technical and Vocational Training Authority's (STEVTA) "Training of Trainers" Project, under Sind Skills Development Project (SSDP)
2. Hastak, M., Gokhale, S., Bayraktar, M.E., Naderpajouh, N., Iyer, A., and **Arif F.** (2014). "Mitigating Threats of Counterfeit Materials in the Capital Projects Industry." Research Report 307-11 Construction Industry Institute (CII).
3. Bayraktar, M. E., Kang Y., Svinkin M., and **Arif, F.** "Evaluation of Vibration Limits and Mitigation Techniques for Urban Construction." Project Report for Florida Department of Transportation (FDOT), FDOT Contract No BDK80 977-22, October 2013.
4. Bayraktar, M. E., Zhu.Y. and **Arif, F.** "Commercial Motor Vehicle Parking Trends At Rest Areas And Weigh Stations." Project Report for Florida Department of Transportation (FDOT), FDOT Contract No.: BDK80 977-14, December 2012.
5. Bayraktar, M. E. and **Arif, F.** "Venture Capital Opportunities in Green Building Technologies: A Strategic Analysis for Emerging Entrepreneurial Companies from South Florida and Latin America", Ewing Marion Kauffman Foundation / Eugenio Pino and Family Global Entrepreneurship Center, Florida International University, Jan. 2011.

### **Books Edited**

1. **Arif F.**, Sangi A.J., and Lodi S.H. "Proceedings of 8th International Civil Engineering Congress (ICEC-2016) "Ensuring Technological Advancements through Innovation based Knowledge Corridor" December 23-24, 2016, Karachi, Pakistan, published by Institution of Engineers Pakistan (IEP).
2. **Arif F.**, Gazder U., and Lodi S.H. "Proceedings of 7th International Civil Engineering Congress (ICEC-2015)-Sustainable Development through Advancements in Civil Engineering" June 12-13, 2015, Karachi, Pakistan, published by Institution of Engineers Pakistan (IEP).

## RESEARCH PROJECTS

### **1. Design Theory and Assessment of Recycled Concrete Structures in Earthquake Prone Regions**

Pakistan Side: Prof. Dr. Asad ur Rehman Khan (PI); Prof. Abdul Jabbar Sangi (Co-PI), Dr. Farrukh Arif (Co-PI), NED University of Engineering & Technology

Chinese Side: Prof. Dr. Jianzhuang Xiao (PI), Tongji University, Shanghai University, China

Funding Agency: National Science Foundation of China (NSFC) and Pakistan Science Foundation (PSF).

Period: January 2017-In progress

### **2. Establishment of Virtual Reality Center at NED University of Engineering & Technology**

Project Personal: Dr. Farrukh Arif and Prof. Sarosh H. Lodi

Funding Agency: University Development Working Party (UDWP)

Period: December 2017-In progress

### **3. Sind Technical and Vocational Training Authority (STEVTA) "Training of Trainers" Project, under Sind Skills Development Project (SSDP)**

Project Director: Prof. Sarosh H. Lodi, Funding Agency: STEVTA (through World Bank), Time

Period: October 2014 – March 2015, Role: Co-Focal Person.

### **4. Development of a Self-Assessment Tool for Emerging Entrepreneurial Companies in Latin America and South Florida: Getting Ready For Venture Capital Opportunities in Net-Zero Buildings.**

Principal Investigator: M. Emre Bayraktar

Funding Agency: FIU Eugenio Pino and Family Global Entrepreneurship Center

Amount: \$10,000, Time Period: January 2013 – December 2013

### **5. Mitigating Threats of Counterfeit Materials in the Capital Projects Industry.**

What are the necessary, prudent, and most effective processes and practices for ensuring that counterfeit construction materials and equipment do not enter capital project supply chains?

PI: Sanjiv Gokhale, P.E., Ph.D. - Vanderbilt University, Makarand (Mark) Hastak, P.E., Ph.D., Purdue University, and Mehmet Emre Bayraktar, Ph.D. - Florida International University

### **6. Evaluation of Vibration Limits and Mitigation Techniques for Urban Construction.**

Principal Investigator: M. Emre Bayraktar

Funding Agency: Florida Department of Transportation (FDOT)

Amount: \$149,959, Time Period: November 14, 2011 – October 14, 2013

### **7. Life Cycle Based Assessment of Sustainable Practices in the Natural Stone Industry.**

Principal Investigator: M. Emre Bayraktar

Funding Agency: Stoneline Group LLC, Miami, FL.

Amount: \$10,127, Time Period: September 01, 2011 – February 29, 2012

### **8. Commercial Motor Vehicle Parking Trends at Rest Areas and Weigh Stations.**

Principal Investigator: M. Emre Bayraktar

Funding Agency: Florida Department of Transportation (FDOT),

Amount: \$100,230, Time Period: March 22, 2011 – December 31, 2012.

**9. A Study of Non-Union Wage Rates of Construction Trades in South Florida.**

Investigators: M. Emre Bayraktar & Irtishad Ahmad

Funding Agency: Jointly funded by ABC, AGC, CASF, ECA and FTBA

Amount: \$15,000, Time Period: September 01, 2010 – May 01, 2011

**10. Venture Capital Opportunities in Green Building Technologies.**

Principal Investigator: M. Emre Bayraktar

Funding Agency: FIU Eugenio Pino and Family Global Entrepreneurship Center

Amount: \$14,937, Time Period: January 26, 2010 – January 11, 2011

**11. Development of a Strategic Model for Improvement of Construction Project Management Education, Research, and Practice in Pakistan.**

Principal Investigators: Syed Mahmood Ahmed, FIU and Sarosh Hashmat Lodi, NEDUET (Pak)

Pakistani Funding (HEC): \$275,000, US Funding: \$130,000, Time Period: January 1, 2006 - December 15, 2009.



## HONORS AND AWARDS

1. **Best University Teacher Award (BUTA 2015)**-Awarded by Higher Education Commission of Pakistan, conferred on December 27, 2016.
2. **Biography** included in 33rd Edition of Marquis Who is Who in the World 2016
3. **Outstanding Doctoral Degree Graduate Award**-Awarded by the College of Engineering and Computing, Florida International University in recognition of academic achievement and exemplary service to the department, FIU and the community while pursuing Doctoral in Civil Engineering.
4. **2012-13 American Society of Civil Engineers (ASCE-Miami) Graduate Student of the Year** -Awarded in recognition for contribution to the engineering profession through academic achievement, research and development.
5. **2013 Association for the Advancement of Cost Engineering (AACE) International Award Scholarship** awarded based on evaluation of academic performance, research and development activities, honors, extracurricular activities etc.
6. **Dissertation Year Fellowship (DYF) Award 2013**-Awarded by University Graduate School (UGS) at Florida International University. Dissertation Year Fellowships (DYFs) provide support to highly-qualified FIU doctoral students during the data analysis and writing phase of their dissertation. It is intended to facilitate the timely completion of high-quality manuscripts and dissertations. Students who are conducting outstanding research in their discipline and have established a notable record of publication during their doctoral studies (in comparison to others in their discipline) are favored in the application process.
7. **FIU Scholarly Forum Award 2013**-Presented findings of a study titled “Commercial Motor Vehicle Parking Trends at Rest Areas and Development of ITS based Truck Parking Management System” and won second place in the “Civil and Bio Medical Engineering” at FIU scholarly forum held on March 25-26, 2013 at Florida International University.
8. **FIU Scholarly Forum Award 2011**-Presented findings of a study titled “Disaster Management Model for Karachi” and won second place in the “Disaster and Crisis Management” at FIU scholarly forum held on March 28-29, 2011 at Florida International University.

9. **FIU Scholarly Forum Award 2010**-Presented findings of a study titled "Accuracy of Cost Estimates of Construction Projects in Pakistan." and won fourth place in the "Engineering" category at FIU scholarly forum held on March 22, 2010 at Florida International University.
10. Selected for Poster Presentation at 2012 CII Annual Conference Baltimore, MD on July 23-25.

#### **INVITED LECTURES/ SPEECHES / TRAININGS DELIVERED**

1. 3-Day training on "**Outcome based Education (OBE)**" Under Higher Education Commission Indigenous On-Campus Training (HEC-IOT), Organized by Quality Enhancement Cell, NED University, December 28-30, 2016.
2. Guest Lecture on "**An Insight to Construction Industry Dynamics in Pakistan**" at Middle East Technical University (METU), Ankara, Turkey, November 10, 2016
3. Guest Lecture on "**Smart Parking Management System**" at Yildiz Technical University (YTU), Istanbul, Turkey, November 06, 2016.
4. Keynote at Research Seminar on "**Infrastructure Management Research-Experience Sharing and Way Forward**", Middle East Technical University (METU), Ankara, Turkey, on October 26, 2016.
5. Interactive Workshop on "**Strategy and Roadmap for Energy Efficient Buildings and Smart Cities in Pakistan**" March 08, 2016, jointly organized by NED University of Engineering & Technology, and the ministry of Federal Education and Training, Government of Pakistan, under President's Programme for Care of Highly Qualified Overseas Pakistanis (PPQP). *(Attended by 45 professionals from 20 different organizations.)*
6. Two-Day Workshop on "**Cost Engineering and Control**"- February 26-27, 2016, Department of Civil Engineering, NED University. *(Attended by around 50 senior construction industry professionals from across Pakistan)*
7. One Day CPD Seminar titled "**Entrepreneurship and Basic Supervision of Construction Projects**" held on 10th February 2016 at NED University of Engineering & Technology, Karachi, organized by Pakistan Engineering Council (PEC) (attended by over 150 professional engineers from across Pakistan)

8. Invited Speaker to present on **“Asset Management Approach for Urban Transportation Infrastructure Management- Learning from International Best Practices, Research and Development (R&D) Projects.”** at National Conference on Sustainable Transport in Pakistan **“Paving the way for Sustainable Transport in Pakistan”** December 18 – 19, 2015, SERENA Hotel – Islamabad.
9. Training Resource Person at **“Project Management (HEC IOT Program)”** organized by Quality Enhancement Cell of NED University of Engineering & Technology in collaboration with Higher Education Commission (HEC) November 17, 2015 to November 19, 2015.
10. The **“Risk Analysis and Decision-Making”** Course for **Extended Internship Program (EIP)**. Jointly Organized by *Pakistan Petroleum Limited (PPL)* and *NED University of Engineering and Technology*, Karachi. June-August 2015 (10 sessions’ series). (*Audience: 107/ Electrical, Mechanical, Petroleum, Civil, Geosciences Graduates*)
11. The **“Project Planning & Management”** Course for **Extended Internship Program (EIP)**. Jointly Organized by *Pakistan Petroleum Limited (PPL)* and *NED University of Engineering and Technology*, Karachi. December 26<sup>th</sup>, 2014 to January 09<sup>th</sup>, 2015 (6 sessions’ series). (*Audience: 122/ Electrical, Mechanical, Petroleum, Civil, Geosciences Graduates*)
12. Invited Speech titled **“Project Management Skills”** in project management seminar titled **“Delivering Successful Projects through Effective Project Management.”** *The Institution of Engineers Pakistan (IEP)*, Karachi Center, Saturday, December 20<sup>th</sup>, 2014. (*Audience: 173 delegates including industry professionals & practitioners, academicians, researchers, multi-field engineers, students etc.*)

## PRESENTATIONS

1. Poster Presentation titled **“A Decision Support System for Infrastructure Maintenance/Rehabilitation/Replacement Investments”** at Construction Research Congress (CRC) 2012 PhD Student Poster Session, May 21<sup>st</sup> 2012.
2. Poster Presentation titled **“A Decision Support System for Infrastructure Maintenance/Rehabilitation/Replacement Investments”** at 2012 CII Annual Conference Baltimore, MD on July 23-25.
3. Presented research paper titled **“Theoretical framework for transportation infrastructure asset management based on review of best practices.”** at the Construction Research

Congress 2012: Construction Challenges in a Flat World, West Lafayette, Indiana, United States May 21-23, 2012.

4. Presented research paper titled "Strategic Management Concepts and Practices in Pakistan: A Construction Industry Perspective." Proceedings of the Construction Research Congress 2012: Construction Challenges in a Flat World, West Lafayette, Indiana, United States May 21-23, 2012, pp. 1530-1539.
5. Presented research paper titled "Detailed Estimating Practices of Construction Firms in Pakistan." 5<sup>th</sup> International Conference on Construction in the 21st Century (CITC-V)- Collaboration and Integration in Engineering, Management and Technology, Istanbul, Turkey, May 20-22, 2009.
6. Presented research paper titled "Safety Performance in Construction Industry of Pakistan." 1<sup>st</sup> International Conference on Construction in Developing Countries (ICCIDC-II)- Advancing and Integrating Construction Education, Research & Practice, Karachi, Pakistan, August 4-5, 2008.
7. Presented research paper titled "An Integrated Approach to Innovation on Fast Track Construction Projects – A Case Study in the U.A.E." 5th International Conference on Innovation in Architecture, Engineering and Construction", Antalya, Turkey, August 23-25, 2008.

## **SERVICES**

### ***Journal Reviewer***

1. Journal of Management in Engineering, American Society of Civil Engineers (ASCE).
2. Construction Management and Economics, Routledge Taylor and Francis Publications.
3. International Journal of Construction Management, Taylor and Francis Publications

### ***Editorial Team Member***

1. International Journal of Sustainable Construction Engineering and Technology, Concrete Society of Malaysia and Universiti Tun Hussein Onn Malaysia (UTHM).

### ***Conference Proceedings Reviewer***

1. Sixth International conference on Construction in 21st Century (CITC –VI), Kuala Lumpur, Malaysia, July 5-7 2011.

### ***Events Organization***

1. **Co-Convener**, 8th International Civil Engineering Congress (ICEC-2016) “Ensuring Technological Advancement through Innovation based Knowledge Corridor” December 23-24, 2016, Karachi, Pakistan, Organized by Institution of Engineers Pakistan (IEP), and NED University of Engineering & Technology, Karachi.
2. **Member Organizing and Advisory Technical Committee** of “**International Conference on Unconventional Resources (ICOUR-I)**”-Advanced Technologies and Development Strategies for Economic Exploitation of Unconventional Hydrocarbon resources in Pakistan and the Region, May 30-31, 2016 Serena Hotel Islamabad, Pakistan.
3. **Resource Person**, Interactive Workshop on “**Strategy and Roadmap for Energy Efficient Buildings and Smart Cities in Pakistan**” March 08, 2016, jointly organized by NED University of Engineering & Technology, and the ministry of Federal Education and Training, Government of Pakistan, under President’s Programme for Care of Highly Qualified Overseas Pakistanis (PPQP). (*Attended by 45 professionals from 20 different organizations.*)
4. **Resource Person**, Two-Day Workshop on “**Cost Engineering and Control**”- February 26-27, 2016, Department of Civil Engineering, NED University. (*Attended by around 50 senior construction industry professionals from across Pakistan*)
5. **Resource Person**, One Day CPD Seminar titled “**Entrepreneurship and Basic Supervision of Construction Projects**” held on 10th February 2016 at NED University of Engineering & Technology, Karachi, organized by Pakistan Engineering Council (PEC) (attended by over 150 professional engineers from across Pakistan)
6. **Focal Person**, 70 Years Commemorating Events of 1945 Makran Tsunami; “**International Conference on Step towards Tsunami Resilience**” held at Marriott Hotel Karachi, Karachi, on November 28, 2015, in collaboration with OXFAM GB and UNESCO.
7. **Focal Person**, 70 Years Commemorating Events of 1945 Makran Tsunami; “**2-Day Workshop on Tsunami Inundation Modeling**” held at Department of Civil Engineering, NED University of Engineering & Technology, Karachi, on November 26-27, 2015, in collaboration with OXFAM GB and UNESCO.
8. **Focal Person**, “**2-Day International Workshop on Outcome Based Education System (OBE), Improving Education Deliverance and Attainment Standards through**

**Transforming Academic Institutions towards OBE system**", October 27-28, 2015, NED University of Engineering & Technology. Karachi, jointly organized by NED University of Engineering and Technology, DHA Suffa University, and Pakistan Engineering Council (PEC).

9. **Co-Convener**, 7th International Civil Engineering Congress (ICEC-2015) **"Sustainable Development through Advancements in Civil Engineering"** June 12-13, 2015, Karachi, Pakistan, jointly organized by NED University of Engineering and Technology, Karachi and Institution of Engineers Pakistan (IEP).
10. **Focal Person**, Half Day Seminar on **"Waste Management: Practices and Management"**, organized by Institution of Engineers Pakistan (IEP) Karachi Center, on May, 16, 2015.
11. **Focal Person**, Half Day Seminar on **"Power System Blackout Avoidance: Technical Measures and Strategies"**, organized by Institution of Engineers Pakistan (IEP) Karachi Center, on January 31, 2015.
12. **Focal Person**, Half Day Seminar on **"Financial Management for Engineers"**, organized by Institution of Engineers Pakistan (IEP) Karachi Center, on January 24, 2015.
13. Coordinator & Member Organizing Committee, **"The 2<sup>nd</sup> International Conference on Construction in Developing Countries (ICCIDC-II)-Advancing and Integrating Construction Education, Research & Practice"**, Cairo, Egypt, August 3-5, 2010.
14. **Focal Person**, Seminar on **"Building Information Modeling"** held on January 17, 2009 at NED University of Engineering and Technology, in collaboration with ER Solutions and AUTODESK.
15. Coordinator & Member Organizing Committee, **The 1<sup>st</sup> International Conference on Construction in Developing Countries (ICCIDC-I)-Advancing and Integrating Construction Education, Research & Practice"**, Karachi, Pakistan, August 4-5, 2008.
16. Member of 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.

17. The “**International Conference on Construction Industry-ICCI**” held on the occasion of Build Asia-2007 organized jointly by E-Commerce Gateway and NED University of Engineering and Technology, Karachi on August 28, 2007 at Expo Center Karachi.

#### ***Administrative Services***

1. Member, National Curriculum Review Committee (NCRC), Civil Engineering, Higher Education Commission of Pakistan (2016 onwards).
2. Member, Validation Committee to assess viability of low cost housing designs/light weight aggregate products by Council for Works & Housing Research (CWHR), Ministry of Science & Technology, Pakistan.
3. Member Board of Review (BoR), Directorate of Finance, NED University.
4. Board of Review (BoR), Department of Information Technology, NED University.
5. Certified Program Evaluator on OBE System, Pakistan Engineering Council.
6. Member, Departmental OBE Cell (DOBEC), Department of Civil Engineering, NED University.
7. Member, PEC Re-accreditation (departmental) committee for BE Civil Engineering Program 2015
8. Member, Masters’ Admission committee at the Department of Civil Engineering.
9. Member Assessment Team (AT) for evaluation of Self Assessment Report (SAR) for Bachelors of Urban and Infrastructure Engineering Program 2014.
10. Member Assessment Team (AT) for evaluation of Self Assessment Report (SAR) of Bachelors of Petroleum Engineering Program 2014.
11. Member Program Team (PT) for development Self Assessment Report (SAR) of Bachelors of Petroleum Engineering Program 2014.
12. Establishment of Post Graduate Computer Laboratory at Department of Civil Engineering, NED University of Engineering and Technology in 2009.

#### **PROFESSIONAL AFFILIATIONS**

1. *American Society of Civil Engineers*- Associate Member (Membership No. 482396)
2. *American Association for Advancement of Cost Engineering*-AAACE (Member)
3. *Pakistan Engineering Council*- Registered Engineer
4. *Miami-Dade Construction Institute Chapter of ASCE* (Founding member)
5. *Athens Institute for Education and Research (ATINER)*-Academic Member
6. *Member, Institution of Engineers Pakistan (IEP)*

#### **CERTIFICANTIONS/COURSES/COMPUTER SOFTWARE PROFICIENCY**

1. Workshop on **“Evidence-Based Onsite Assessment During Accreditation Visit for Program Evaluators”** organized jointly by Pakistan Engineering Council and Higher Education Commission of Pakistan at PEC HQ Islamabad, August 28, 2016.
2. 5-day training for **“Program Evaluators (PEV)”** at Pakistan Engineering Council (PEC) HQ Islamabad, August 08, 2016 to August 12, 2016 at PEC HQ in Islamabad.
3. Certified Professional Course ***Total Quality Management and Risk Management*** from Center for Continuing Engineering Education (CCEE) NED University of Engineering and Technology.
4. Certified Course of ***MS Project*** from International Office Products.
5. Certified Course of ***AUTOCAD*** from Autodesk Authorized Training Center.
6. Scheduling knowledge with ***Primavera (P6)***.
7. **“Technical Computing with MATLAB”**-Certified Course from Quality Enhancement Cell, NED University.
8. **“5<sup>th</sup> Workshop on Developing Industry Driven Technologies”**, Organized by ORIC-NED University, PASTIC, IRP, January 05, 2015.

#### **PH.D. / MASTERS SUPERVISION**

1. Ph.D. Advisor of Ms. Kiran Adnan, Ph.D. (Urban and Infrastructure Engineering)
2. Masters Advisor of Mr. Waleed Ahmed Khan, Masters in Engineering Management (Construction Management)

#### **TEACHING**

##### ***Undergraduate Courses***

1. Sustainable Technologies and Disaster Management (NED UET)
2. Heavy Construction Equipment and Operations (NED UET)
3. Construction Engineering (NED UET)
4. Fundamentals of Construction Management (NED UET)



5. Legal And Regulatory Environment in the Construction Industry (NED UET)
6. Quantity and Cost Estimation (NED UET/FIU)
7. Economic Planning for Construction (FIU)
8. Financial Management of Construction Organizations (FIU)
9. Engineering Drawing (NED UET)
10. Engineering Mechanics (NED UET)
11. Introduction to Computing (NED UET)

#### ***Graduate Courses***

1. Operations Research (NED UET)
2. Infrastructure Asset Management (NED UET, Ph.D.)
3. Cost Engineering and Control (NED UET)
4. Decision Making and Risk Management in Construction (NED UET)
5. Fundamentals of Construction Estimating (FIU)
6. Construction Cost Analysis and Control (FIU)
7. Decision and Risk Analysis in Construction (FIU)
8. Developments in Construction Technology (FIU)