

## Dr. Jalal Al Dabbeek

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### **CURRENT POSITION**

Director of Urban Planning & Disaster Risk Reduction Center, An- Najah National University,  
September 1996 – Present

### **EDUCATION**

- Ph.D. in Structural Engineering. "Ductility of Partially Prestressed Concrete", Technical University, Cluj-Napoca, Romania, January, 1989
- M. Sc. in Civil Engineering (Structures), Cluj University, Cluj-Napoca, Romania, June, 1985.
- B.Sc. in Civil Engineering, Cluj University, Cluj-Napoca, Romania, June, 1985.

### **WORK EXPERIENCE**

<b>Sept. 1996 - to Date</b>	Director of the Center for Urban Planning & Disaster Reduction & Director of Earthquake Engineering Unit, An-Najah National University (the old name of the center was Earth Sciences and Seismic Engineering, between the period Sept. 1996 – Sept. 2011.
<b>Sept. 2008- to Date</b>	Coordinator of Scientific Centers at An-Najah National University.
<b>Sept. 1994-Sept. 1996</b>	Associate Professor, Birzeit University, Ramallah West Bank.
<b>Oct. 1989- Sept.1994</b>	Assistant Professor / Associate Prof., Sana'a University, Yemen.
<b>Feb. 1989- Aug.1989</b>	Assistant Professor, Civil Engineering Faculty, Cluj University, Romania.

### **Professional registrations / Professional Associations**

- Earthquake Engineering Research Institute EERI, Oakland, CA-USA.
- RELEM Group "Reducing Earthquake Losses in the Eastern Mediterranean Region" - UNESCO.
- Engineering Education Committee in the World Federation of Engineers (WFEO), Palestine representative from 2001 to 2009.
- National Agency for Disaster Risk Mitigation (in Palestine), Vice President.
- Seismological Society of America (SSA)
- others

- Engineering Education Committee in the Federation of Arab Engineers - Palestine representative.
- Jordanian / Palestinian Engineers Association.

### **Key Qualifications:**

- Dr. Al Dabbeek, the director of Urban Planning & Disaster Risk Reduction Center & Director of Earthquake Engineering Unit at An-Najah National University, is a recognized authority in Earthquake Engineering and Disaster Risk Reduction in Palestine.
- He has a 27 years experience in earthquake engineering, seismic design of buildings, seismic retrofitting of existing buildings, strategic planning for disaster risk reduction (risk assessment, risk management and risk maps), and seismic site effect and urban planning.
- In addition to **professional experience listed briefly below**, he worked as Project Consultant/Team Leader for a number of distinguished national projects and activities:
  - Studying the landslides which occurred in West Bank in 1997, 2003, 2005 and 2012 giving the suitable solutions and supervising the implementation. Studying the capacity and stability of cavities in the North Mountain area (North West of Nablus). Urban Planning in Municipalities and Joint Services Councils-Basic Survey Project (MDLF).
  - Conducting several workshops in West Bank: "Making Cities Resilient Campaign" in cooperation with UNISDR, Municipalities and Ministry of Local Government (2010 – 2012).
  - Participating in the technical advisory committee of the Nablus municipality, as a representative of An Najah National University.
  - Conducting assessment of seismic site effect for Rawabi first Palestinian planned city (2010).
  - Conducting geophysical investigation of Al-Menya Sanitary Landfill Site, using seismic technique, Hebron-Palestine, (2010), funded by WB.
  - Team Leader of the renovation and conservation of Khan Al-Wakala project, Nablus old city in cooperation with the European Commission, UNESCO and Nablus Municipality, (2005 – 2008).
  - Conducting the first Palestinian research in the field of seismic vulnerability of buildings and earthquake scenarios. The research covered most of the major cities in Palestine and it was done in cooperation with related municipalities and with Engineering Association, (1999 – 2009).
  - Served as a consultant for the Welfare Association - Old City of Jerusalem Revitalisation Programme, (from 2008 to date), in the field of earthquake design of buildings and structural upgrading of historical buildings.
  - Participating in Revitalization and Rehabilitation Plan for the Old Town of Nablus City (*Welfare Association*).
  - Preparing an assessment on disaster risk reduction and need assessment in the Occupied Palestinian Territory, funded by UNDP (2008).
  - Participating in national committees for seismic design of buildings, seismic risk reduction, land use planning, building license rules and regulations.

- Participating in superior technical committee for renovation and reconstruction of damaged buildings and infrastructures in Nablus city (An-Najah National University representative) in cooperation with Nablus Municipality and other Institutions (2002 – 2004).
- Conducting post-disaster damage assessments (2002 – 2003) in cooperation with Nablus municipality and UNDP.
- Participating in managing Employment Generation Programme EGP Phases II and III- (conservation, rehabilitation and reconstruction of Nablus city in 2002 and 2003) in cooperation with Nablus municipality, funded by Norway.
- Participating in the land use planning studies and developing Al-Bathan area in Nablus region for tourisms, in cooperation with Nablus Governorate and several institutions (1997 – 1998).
- Others, see professional experience listed below.

He attended and participated in numerous local and international workshops, conferences, and seminars. Finally, he published a number of papers in local and international journals.

**PROFESSIONAL EXPERIENCE:**

1989 - 1994	<ul style="list-style-type: none"> <li>● Technical consultant for several institutes and companies in Yemen in the field of seismic design of buildings and infrastructures, seismic retrofitting (rehabilitation) of existing buildings, seismic site effect, seismic design of buildings, disaster management and risk reduction.</li> <li>● Organizing and conducting continuing education programs in earthquake engineering at Sana'a University, Yemen.</li> <li>● Chairman of the scientific committee of the first conference in earthquake engineering at Sana'a University, Yemen.</li> </ul>
1994 - to date	<ul style="list-style-type: none"> <li>● Technical consultant and inte expert for several international organizations (UNESCO, UNDP, UNISDR, UNESCO, USAID, WB etc) in the field of disaster risk assessments, need assessment, disaster management, capacity buildings, emergency preparedness, awareness programs, seismic vulnerability of buildings and infrastructures, and rehabilitation of existing reinforced concrete and historical buildings.</li> <li>● <u>Participating</u> in regional and international research projects (funded by USAID-MERC, DFG-Germany, GFZ-Germany, Rothschild, SDC etc) in the following subjects: seismicity of the Dead Sea Rift (seismicity of the region), earthquake hazard maps and building codes, seismic performance of historical buildings, seismic vulnerability of Palestinian common buildings, earthquake scenarios and risk maps, .etc.</li> <li>● Conducting projects, studies and other scientific activities in favor of Palestinian Municipalities, Institutions and Ministries in Palestine.</li> <li>● Participating in national committees for seismic design of buildings, seismic risk reduction, land use planning, building license rules and regulations.</li> <li>● Conducting studies on seismic site effect, damage assessment, seismic</li> </ul>

	<p>rehabilitation of existing buildings, risk assessment, risk maps and seismic design of buildings and infrastructures.</p> <ul style="list-style-type: none"> <li>• Conducting training courses in seismic design of buildings, disaster risk reduction (DRR) in cooperation with related Palestinian Institutions (Municipalities and Ministries) in addition to many NGOs.</li> <li>• Conducting public awareness programmes on disaster risk reduction for individual citizens, professionals and decision makers, through public lectures, workshops and reports.</li> <li>• Served as a consultant for the USAID project to reform the Palestinian healthcare sector, known as “the Flagship Project”. As a part of this served as the principal preparer of an Emergency Preparedness and Response Plan outlining the current state of preparedness in health sector and the steps to increase its disaster resiliency. This included field assessment (non structural seismic vulnerability assessment of hospitals and health centers), meetings with engineers and decision makers in the ministry of health, as well as public awareness campaigning (2010 – 2011).</li> <li>• Supervising many Master's dissertations in Earthquake Engineering and related subjects</li> <li>• Developing and conducting academic courses for different faculties of the An Najah National University on seismic risk mitigation, seismic design of buildings and retrofitting of existing buildings, disaster management and emergency response.</li> <li>• Chairman of the organizing committee of the first Palestinian symposium on seismic risk mitigation, June 1996.</li> <li>• Participating in national and international conferences, symposiums, meetings, and workshops in the field of seismic hazard mitigation, earthquake engineering, land use policy and disaster risk reduction DRR (risk assessment and risk management).</li> <li>• Establishing the Earth Sciences and Seismic Engineering Center at An-Najah National University, Palestine, Oct. 1996.</li> <li>• Raising awareness through hundreds of talks broadcast by mass local and International media (TV and radio).</li> <li>• Others.</li> </ul>
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## **COURSES TAUGHT:**

### **BACHELOR COURSES:**

- Earthquakes and Risk Mitigation
- Earthquake resistant buildings design
- Modern Structural Systems
- Reinforced Concrete (1)
- Architectural Design of Earthquake-Resistant Buildings
- Disaster Management and Emergency Response (Disaster Risk Reduction).

## **MASTER LEVEL COURSES:**

- Land Use Planning and Risk Maps
- Earthquake resistant buildings design

## **PUBLICATIONS AND RESEARCH:**

- Publishing scientific papers in the field of seismic design of buildings, risk mitigation, site effect, risk assessment, disaster management and seismic vulnerability of buildings through conferences, journals, workshops, symposiums, and magazines.
- Publishing three books: “Earthquakes and Our Readiness”, Seismic Risk Mitigation and Architectural Design of Earthquake-Resistant Buildings.
- Publishing bulletins to civil and architectural engineers about the general recommendations of seismic design of buildings.
- Publishing seismic bulletins to the public in the field of safety guidelines.
- Publishing awareness materials through national newspaper, journals, and magazines, and conducting special programs, courses, lectures and interviews concerning public awareness programs.

### **Selected Publications (in last 5 years):**

Jalal Al Dabbeek, (2007), “Vulnerability and Seismic Performance of Palestinian Common Buildings in West Bank- Case Study-“, Islamic University, ISSN 1726-68-7, Vol.15, No.1, pp 193-217 . (In Arabic language).

Jalal Al Dabbeek, (2007),”Earthquakes and Our Readiness”, a research book in a Arabic language, An - Najah National University, Dean of Research- Pub- 2007.

Jalal Al Dabbeek, (2009), “Earthquakes and Risk Mitigation”, engineering course for nonengineers, An - Najah National University, Dean of Research- Pub- 2009, (a book in Arabic language).

Al Dabbeek, J., and El-Kelani R., (2008), “Rapid Assessment of Seismic Vulnerability in Palestinian Refugee Camps”, Journal of Applied Sciences, Journal of Applied Sciences (8): pp 1371-1382, ISSN 1812-5624008 Asian Network for Scientific Information.

Al Dabbeek, J., and El-Kelani R., (2008), “Site Effect and Expected Seismic Performance of Buildings in Palestine-Case Study: Nablus City”. Seismic Engineering International Conference, MERCEA'08, 08-11 July 2008, T2-A-54, Reggio Calabria and Messina, Italy

Al Dabbeek, J., and El-Kelani R., (2008), “ Threat of Natural Disasters on Urban Planning in

Palestine: Seismic Risk Impact”, Urban Planing Conference in Palestine, An Najah National University, Oct. 21-23,2008.

Al Dabbeek, J., and Amad E., (2009), Rapid Assessment of Historical buildings and Priority of Consolidations”, (Case Study West-Bank, Palestine), First International Conference: Protection of Historical Buildings, Rom, Italy, Jun 21-24, 2009.

Jalal Al-Dabbeek, &. Hussein Ahmad (2009), “The Extent of Awareness of Seismic Risks among Palestinian Citizens”, An - Najah Univ. J. Res. (N. Sc.) Vol. 23, 2009.

Jalal Al Dabbeek, (2010), “An Assessment on Disaster Risk Reduction in the Occupied Palestinian Territory, An Najah Univ. Journal (N.Sc.) Vol. 24, Dec. 2010.

Jalal Al Dabbeek, (2010), “Architectural Design of Earthquake-Resistant Buildings” - Architectural and Structural Configuration of Buildings-, An - Najah National University, Dean of Research-Pub- 2010, (a book in Arabic language).

## **LANGUAGES**

- Arabic: Native
- Romanian: Speaking, Reading, Writing: V. Good
- English: Speaking, Reading, Writing: V. Good

## **REFERENCES**

Available upon request.

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