

Professor. Dr Mohammed Essam Ali Shaawat

PERSONAL DETAILS

- **Address:** College of Architecture & Planning
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Dammam 31451
Saudi Arabia
- **Tel No:** Mobile.+966 - (055) 1274117 /(056) 0077220
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- **E-mail:** mshaawat@ud.edu.com
abtshaawat_2005@yahoo.com
mshaawat1957@gmail.com

PERSONAL PROFILE

- **Date of Birth:** 31/12/1957
- **Marital status:** Married
- **Nationality:** Egyptian, holding a residence in Saudi Arabia.

- Logical and systematic approach to achieving tasks
- High personal standards
- Detailed and precise
- High design skills and practical problem-solving
- Professional management skills
- Team leader
- High performance in research and teaching
- Capable of handling stress
- Excellent communication skills

EDUCATION

- **1996: Cairo University**
(Cairo -Egypt)
Obtained a PhD in **Architectural Engineering**.
Doctoral dissertation “**Economic Constrains and their Impact on Efficiency of Construction Projects**”
- **1989: Alexandria University**
(Alexandria -Egypt)
Obtained a Master of Science in **Architecture**.
Master thesis “**Development of Building Industry and Housing in the New Settlements**”
- **1981: Alexandria University**
(Alexandria -Egypt)
Obtained a Bachelor of Engineering in **Architecture** with very good.

AREA OF SPECIALTIES

- Architectural and Urban Design.
- Execution Drawings and Building Technology.
- Commend and Project Control.

ACADEMIC EXPERIENCE

- Value Engineering.
 - Project and Construction Management.
 - Construction Planning and Scheduling.
 - Cost Estimation & Cost Control.
 - Feasibility Studies and Economical Analysis.
 - Sustainability and Sustainable Construction.
 - Sustainable Assessment & building's environmental performance.
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- **2009 - Present: Professor. Dept. of Building Engineering, College of Architecture & planning, Dammam University (previous' King Feisal University) KSA.**
 - **2005 - July 2009: Associate Professor. Dept. of Building Science & Technology, College of Architecture & planning, King Faisal University, KSA.**
 - **1996 - 2005: Associate professor. Dept. of Architecture, Faculty of Engineering, Shoubra, Banha University & Zagazig University, Cairo, Egypt.**
 - **2009: Visiting professor. Dept. of Architectural , College of Environmental Design, King Fahd University of Petroleum & Minerals , KSA**
 - **2000 -2005: Visiting professor. Dept. of Architectural Engineering and Environmental Design, college of Engineering and Technology (Alexandria, Cairo Branch), Arab Academy for Science & Technology and maritime transport. 2000 -2005.**
 - **1996 - 1999: Visiting professor. Dept. of architecture, faculty of engineering, Tanta University, Tanta, 6th of October University, Giza, Egypt.**

ACADEMIC COURSES (Taught)

2005 - Present: King Faisal University & Dammam university, KSA
College of Architecture & planning.

Undergraduate Courses:

- **Construction Management I, II.**
- **Cost Estimation & Specifications**
- **Building Management**
- **Construction Systems I, II**
- **Technical Project III, IV**
- **Technical Project V: Advanced Integrated Design**
- **Technical Project VI: Graduation Project**

Graduate Courses:

- **Engineering Economy: Cost Accounting and Economic Analysis.**

- **Building Management:** General & Scientific Management.
- **Evaluative Engineering:** Value Management.
- **Life Cycle Cost Planning:** LCC Management.
- **Contract & Law**

**2000 -2005: Arab Academy for Science & Technology
(Alex.& Cairo - Egypt)**

Dept. of Architecture Engineering & Environmental Design.

Undergraduate Courses:

- **Building Technology 1, 3**
- **Execution Design 1, 3**
- **Specifications, Quantities & Cost Estimation.**

Postgraduate Courses

- **Project Management & scheduling**

**1996 - 2005: Zagazig University, Faculty of Engineering, Shoubra
Dept. of Architecture. (Cairo - Egypt)**

Undergraduate Courses:

- **Working Drawing (4th year)**
- **Prefabricated Buildings (4th year)**
- **Project Management (4th year)**
- **Architectural Design (4th year)**
- **Housing (3rd year)**
- **Construction Equipment (3rd year)**
- **Architectural Design (2nd + 3rd year)**

Postgraduate Courses

- **Buildings Economy**
- **Feasibility Studies**
- **Project Management.**
- **Resource Management.**
- **Planning & Time Schedule**

**1997 - 1998: Tanta University (Egypt) Faculty of Engineering
Dept. of Architecture.**

- **Working Drawing (3rd Year)**
- **Working Drawing (4th Year)**
- **Contract & Law (4th Year)**
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**PUBLICATIONS
&
DISSEMINATED
PAPERS**

1996 - 1997: 6Th of October University (Cairo - Egypt)
Faculty of Engineering, Dept. of Computer
Engineering. **Building Management (Elective)**

- **Shaawat, M.Essam 1989: “Development of Building Industry and Housing in the New Settlements”, Master thesis of Architecture, Alexandria University, Faculty of Engineering, Alex. Egypt**
- **Shaawat, M. Essam 1996: “Economic Constrains and their Impact on Efficiency of Construction Projects”, PhD Dissertation, Cairo University, Faculty of Engineering, Architectural department, Cairo, Egypt.**
- **Shaawat, M. Essam 1997: Materials as a Tool for Construction Success in Construction Site, the Fourth International Conference for Building and Construction ,Cairo, Egypt.**
- **Shaawat, M. Essam & Deosuki, Shrief 1998: The Maintenance between Regulations and Applng in Buildings, The 5th international conference for building and construction, Cairo, Egypt.**
- **Gabr, M & Shaawat, M. Essam 2002: The role of Funding and Public Participation in upgrading the Urban Fabric of Cities, The 4th international Conference on Architecture and Urbanization , Assiut University, faculty of engineering, Assiut, Egypt.**
- **Galb, Ali & Shaawat, M. Essam 2002: Square Statues as a Component of the City Decoration (Analytical Study of Statues in Cairo Squares),The Faculty of Fine Arts, Architecture Dept. Mania University, Mania, Egypt.**
- **Gabr, M & Shaawat, M. Essam 2002: Heritage Value and Identity of the City (Post War Experience in Port Said City), Fine Arts Collage, Scientific journal, Alexandria University, Alexandria, Egypt.**
- **Shaawat, M. Essam 2003: “The Role of Architect in Maintenance Considerations during Design Phase”, The faculty of Engineering, Scientific Journal, Helwan University, Cairo, Egypt.**
- **Shaawat, M. Essam & Deosuki, Shrief 2003: The New Concept & Technology and their effect to Form the Building Facades in Egypt, Al Azhar Engineering 7th International Conference, Al Azhar University , Cairo, Egypt.**

- **Shaawat, M. Essam & AL-Alfy Ayman 2004: T.Q.M as Approach for Developing of Project Construction Performance**, Arab Academy for Science & Technology & Maritime transport, Scientific Journal, vol. 29 No. 57, Alexandria, Egypt.
- **Shaawat, M. Essam & Al-Salh, Hashim 2005: The Role of Value Management to Achieve Sustainability Concept in Architectural Projects**, The Gulf Third Value Engineering Forum, Kuwait First Value Engineering Conference & Exhibition, Kuwait.
- **Shaawat, M. Essam & Al-Salh, Hashim 2006: Sustainable Value in Designing and Implementing for Low Income Housing Projects in Saudi Arabia**, The First Symposium of Charitable and Affordable Housing in Saudi Arabia, Al- Khobar, KSA
- **Shaawat, M. Essam 2006: Selecting the Optimal- Glazed Façade for office Building in Arab Gulf Region; Economic Viability Based on Value Engineering**, the First International Conference of Architecture and Urban Planning ARUP, Ain Shams University, Faculty of Engineering, Cairo, Egypt.
- **Shaawat, M. Essam 2007: Applying Value Engineering Concept for Minimizing Waste Materials Hazard in Construction Sites**, the Second Ain Shams University International Conference on Environmental Engineering, Cairo, Egypt.
- **Shaawat, M. Essam & Gaduo, Hesham 2007: the Role of Value Management & GIS and Remote Sense to Manage the Reconstruction of Arab Disaster Cities**, Symposium: Disaster Management & Safety of Building in Arab Countries. Riyadh, KSA.
- **Shaawat, M. Essam & Al-Salh, Hashim 2007: An Approach to health damage management of building materials and its impact on indoor environment of buildings**, Ministry of Municipal & Rural affairs, Building Technology Magazine, Vol.12, Riyadh, KSA.
- **Shaawat, M. Essam & Sarhan, Alla 2008: Mass Customization as an Approach for Improving the Quality of Low-Cost Housing Projects**, the Second Symposium of Charitable Affordable Housing in Saudi Arabia, Khobar, KSA.
- **Shaawat, & Sarhan & Basuiony 2008: A Value-Based Index as an Effective Mechanism for Improving the Architectural Product of low-Income Housing Projects**, the Second Symposium of Charitable Affordable Housing in Saudi Arabia, Khobar, KSA.

**RESEACH
PROJECT**

**PROFESSIONAL
TRAINING
&
WORKSHOPS**

- Shaawat, M. Essam & Tarek “Post Graduate” 2009: **Utilizing E-Management to Enhance the Performance of Operation Departments in Hospitals**, Fourth e-Service Symposium in Eastern Province, Khober, KSA.
- Shaawat, M. Essam & AL-Hefnawey M. 2011: **Sustainability Threats and Responsive Policies in Arab States**, World Sustainable Building Conference SB 11 Helsinki, Finnish Association of Civil Engineers RIL, Finland.
- AL-Hefnawey M & Shaawat, M. Essam 2012: **Sustainability Threats policies in the Arab States: A Public Awareness Study**, The Asian Conference on Arts and humanities, Osaka, Japan.
- Shaawat, M. Essam & Noman Ashraf 2013: **Comparative study of energy performance of an institutional building for different façade configurations in Saudi Arabia**, SB13 Graz, institute of Technology and Testing of building materials of Graz University of Technology, Graz, Austria.
- Shaawat, M. Essam & Jamil Rehan 2014: **A Guide to Environmental Building Rating System for Construction of new Building in Saudi Arabia**, Emirates Journal for Engineering Research (EJER), Issue 2 - Volume 19 - 2014.
- B. Umaru Mohammed, M. Essam Shaawat 2014: **Optimum Selection of a Sustainable Lighting System for a University Class Room in Saudi Arabia**, IISTE, International Knowledge Sharing Platform, Vol 6, No 4 (2014).
- Shaawat, M. Essam & Al-Shamrani Othman, B. Umaru Mohammed 2014: **Lack of Sustainability Assessment as a rating tool in the Building Industry - KSA**, WSB14, Barcelona, Spain.
- December 2014- October 2015: **Al Shamrani & Shaawat and Others : Selection of Construction Material based on Life Cycle costing Technique**, The Teacher Mohamed Bin Laden Research chair, University of Hail Saudi Arabia
- 02-16 August 2014: **Summer workshop: Low Carbon Architecture LCASP**, Welsh School of Architecture , Cardiff University , Cardiff UK
- 19 -20 February 2013: **Workshop: Teaching skills in the 21st century**, deanship of education development, University of Dammam, KSA.

- **28 January 2013: Workshop: Communication Skill**, deanship of education development, University of Dammam, KSA.
- **16- January 2013: Workshop: Examining the components and procedures required for assessing the sustainability of communities and place making: A perspective for Egypt**, HBRC & Dundee University, and Cairo, Egypt.
- **08-22 July 2012: Attending and actively participating in the University of Lincoln summer School in Architecture: Conservation and Sustainability**, Lincoln, UK.
- **27-30 June 2011: Workshop, Introduction in ITWO,” construction and Engineering in the 5th Dimension, Tendering Comparison and Simulation of construction progress**, RIB software, Stuttgart, Germany.
- **24- March 2010: Workshop, Sustainability Assessment of the Built environment, Whole life cycle cost**. The fifth e-Services Symposium, Khobar, KSA.
- **23-March 2010: Workshop, Industrialized, Integrated, and Intelligent Construction: Innovation Based on Demand Driven Analysis**, The fifth e-Services Symposium, Khobar, KSA.
- **09-13 January 2010: Project Management professional Preparation exam**, University of Dammam & Project management information House-Egypt, Al-Khobar, KSA.
- **20-November 2009: The International Publishing**, Ain Shams University, Cairo, Egypt.
- **01-13 September 2009: Short Course, Using Computer in Teaching**, Ain Shams University, Cairo, Egypt.
- **16- 18 September 2009: Short Course, Effective Presentation for Teaching**, Ain Shams University, Cairo, Egypt.
- **07- 21 August 2009: Academic Visitor, Construction Management Research Unit in Civil Engineering**, University of Dundee, Scotland, UK.
- **02-09 July 2009: Workshops**, University of Stuttgart, within the academic collaboration agreement with King Faisal University. Germany. Topics
 - **Virtual Reality Technology**
 - **GIS Geographic Information Systems**
 - **Membrane Structures**
- **14-March 2009: Web- Based Project Management System**, one day course, college of Arch. & Planning. University of

Dammam, KSA.

- 02-25 August 2008: Academic Visitor, Civil Engineering Department, Loughborough, University, UK.
- 16- February 2008: **Effective teaching by Educational management System**, King Faisal University, Dammam, KSA.
- 01- March 2008: **Workshop, Using WebCt in Digital Exams**, King Faisal University, Dammam, KSA.
- 17-May 2008: **Workshop, Improving my Communication Skills as a Teacher**, King Faisal University, Dammam, KSA.
- 06- January 2008: **Workshop, Teaching Strategy for University Students**, King faisal University, Khobar, KSA
- 15-20 December 2007: **Workshop**, Visiting, LS-Rasch (Light Weight Structure) Stuttgart, Germany. Projects:
 - **Tents Cities of Hajj Mena**
 - **Clock and Tents in King Abdul-Aziz Tower**
 - **Umbrellas in the Prophet s Holy Mosque**
- 19-23 August 2007: **Workshop**, Real estate appraisal, The Arab Administrative Development Organization (ARAD), League of Arab States, Alexandria, Egypt.
- 04-05 April 2007: **Workshop & Training course for Using WebCT in E-learning**, college of Arch. & Planning, King Faisal University, KSA.
- 20-25 January 2007: Short Course, **Primavera Project Planning for the Enterprise**, Version 6.0. Project management software for business success Promastar PMI Provider, Cairo Egypt.
- September1996 - January1997: Free Course Studies, **Management of project resources**, Engineering Department, American University in Cairo (AUC).Cairo, Egypt.
- 08-13 January 1994: **Computer aided in Project Management using “Primavera” Software**, Engineering Syndicate, and Giza, Egypt.
- 22 December 1993 - 05 January 1994: **Cost Control for Construction Projects**, Engineering Syndicate, Giza, Egypt.
- 10-21 April 1993: Short Course, Construction Management, Center of planning and architectural studies, Cairo, Egypt.
- 13-24 January 1990: Short Course, **Economical Feasibility Study in Urban Project**, Center of planning and architectural studies, Cairo, Egypt.

CONFERENCES

- **28 -30 October 2014: World Sustainable Building Conference SB 14 Barcelona**, The Green Building Council España (GBCe), Spain.
- **04 - 06 November 2013: The Second forum on Traffic Safety**, University of Dammam & Aramco, Dammam, Saudi Arabia.
- **25 - 28 September 2013: Sustainable Building conference SB13**, Graz, institute of Technology and Testing of building materials of Graz University of Technology, Graz, Austria.
- **15-17 January 3013: Hosting, Major International Event, Innovation, Creativity Impact Assessment**, HBRC, Cairo, Egypt.
- **25-27 December 2012: Al Azhar Engineering 7th International Conference**, Faculty of engineering ,Al Azhar University , Cairo, Egypt
- **2-5 December 2012: The Saudi International Advanced Materials Technologies Conference & Building Technologies**, King Abdul-Aziz City for Science & Technology “KACST, Riyadh, KSA.
- **26-27 November 2012: Sustainability through Bimimicry**, College of Design, Dammam, University of Dammam, KSA.
- **02-04 April 2012: Building Information Modelling Conference “BIM”**, Building Smart, Riyadh, KSA.
- **18- 20 April 2012: City 2020+ Engineering Life Quality for the future**, RWTH Aachen University, Germany.
- **19-21 February 2012: 1st Saudi Renewable Energy Conference & Exhibition**, The Centre of research Excellence in renewable Energy “CoRERE”, King Fahd University of Petroleum & Minerals ”KFUPPM”, Dhahran, KSA.
- **14-16 February 2012: 6th ASCAAD Conference 2012**, the Kingdom University, Manama, Kingdom of Bahrain.
- **18-21 October 2011: World Sustainable Building Conference SB 11 Helsinki**, Finnish Association of Civil Engineers RIL, Finland.
- **23-25 November 2010:Future Intermediate Sustainable Cities**, First International Conference on Sustainability and Future, The British University in Egypt, Cairo, Egypt

- **25-27 October 2010: The First Built Environment Development Symposium**, Eastern Province Chamber Commerce/ University of Dammam, Eastern province, Saudi Arabia.
- **07-09 September 2009: 25th Annual ARCOM Conference. Association of Research in Construction Management**, Nottingham, UK.
- **22-24 March 2010: The Fifth e-Services Symposium in Eastern Province**, Comprehensive e-Services: Successes and Challenges, Dammam, KSA.
- **09-11 March 2009: The Fourth e-Services Symposium in Eastern Province**, Comprehensive e-Services: Successes and Challenges, Dammam, KSA.
- **01-03 September 2008: Association of Research in Construction Management “ARCOM” Conference**, Cardiff, UK.
- **07-09 April 2008: GIS, The Third Symposium**, King Faisal University, Khobar, KSA
- **28- 30 April 2008: The Second Symposium Of Charitable and Affordable Housing in Saudi Arabia**, King Faisal University & Alber Organization, Eastern Province, Khober, KSA.
- **29 March- 01 April 2008: Disaster Management & Safety of Building in Arab Countries**, Ministry of Municipal and Rural Affairs, Riyadh, KSA.
- **26-27 February 2008: The third e-Services Symposium in Eastern Province**, The Future of e-Services: The Next Step?, Khobar, KSA.
- **10- 12 April 2007: Second Ain Shams University Conference on Environmental Engineering**, Faculty of Engineering, Ain Shams University, Cairo, Egypt.
- **11-13 November 2006:10th Gulf Engineering Forum**, Khobar, KSA
- **28-30 October 2006: First International Conference of Architecture and Urban Planning ARUP**, Ain Shams University, Faculty of Engineering, Cairo, Egypt.
- **18- 19 April 2006: The First Symposium Of Charitable and Affordable Housing in Saudi Arabia**, King Faisal University & Alber Organization, Eastern Province, Khober, KSA.

ACADEMIC & COMMUNITY SERVICES COMMITTEES

- **20-22 February 2006:**The 3rd International Scientific Conference, Appropriating Architecture & Urbanism in the Decades of Transformation, Faculty of Engineering, Cairo University , Cairo, Egypt.
- **20-21 December 2005:** Kuwait First Value Engineering Conference and Exhibition, the Gulf Third Value Engineering Forum, SAVE International-Gulf Chapter, Kuwait.
- **14-16 February 2004:** The 1st International Scientific Conference, Sustainable Architectural & Urban Development, Cairo , Egypt
- **08-10 April 2003:** Al Azhar Engineering 7th International Conference, Faculty of engineering ,Al Azhar University , Cairo, Egypt.
- **01- 03 April 2002:** Seventh Scientific Conference, the Faculty of Fine Arts, Architecture Dept. Mania University, Mania, Egypt.
- **28-30 March 2002:** The 4th International Conference on Architecture and Urbanization, Assiut University, Faculty of Engineering, Assiut, Egypt.
- **22-26 June 2000:** 7th International conference for Building & construction, Cairo, Egypt.
- **20-22 June 1998:** The 5th International Conference for Building and Construction, Cairo, Egypt.
- **26-30 June 1997:** The 4th International Conference for Building and Construction, Cairo, Egypt.

Membership and chairmanship of many academic committees and commissions at the level of the Community Service Department, College and University in Zagazig & Banha Universities, Egypt - King Faisal University and Dammam University in Saudi Arabia.

2014 - Present: Membership of Principle committee of NCAAA for Accreditation of Building engineering Program.

- **2014 - Present:** Chairmanship of steering committee for 5,9,11 standers, NCAAA for Building Engineering Program.
- **2012- Present:** Membership of the steering committee for establishment of the sustainable research center, college of Arch. & planning, University of Dammam, KSA.

ADVISING & SUPERVISION

- **2011- Present: Post Graduate Coordinator**, College of Architecture & Planning, University of Dammam, KSA
- **22-24 May 2010: chairmanship** of the committee for building technology day “smart building”, college of Arch. & planning, University of Dammam, KSA.
- **2009- 2010: Chairmanship**, Committee for Developing the Academic Undergraduate Program of Building Science & Technology Department, college of architecture & planning, King Faisal University, KSA.
- **2006-2008: Participation** in the development of the preliminary proposal and establishment for the College of Engineering, King Faisal University- Dammam Branch, KSA.
- **2007- 2008: Membership** of committee responsible for the three College of preparatory year program, King Faisal University, Dammam Branch, KSA.
- **2007-2008 : Membership of NCAAA** for Architecture program; responsible for area 4,6,7
- **2006-2007: Membership of the scientific committee** for “The First & second Symposium of Charitable and Affordable Housing in Saudi Arabia”, KSA.
- **2005- present: Chairmanship of the public seminar committee**, college of architecture & planning, University of Dammam, KSA.
- **2001-2002: Participation** in the development of post graduate programs such as;
 - **Project Management Program**
 - **Housing program.**
 - **Maintenance & Restoration**
- **Membership or chairmanship** of committees to judge theses (master) and upgrades to the teachers and professors mattresses participants Egypt and Saudi Arabia.
- **Reviewer & Evaluator** for many of scientific Journal and conferences in Saudi Arabia and Egypt.
- **Supervisor** of 10 finished masters’ theses in the field of Architecture and Building Technology in several Universities in Egypt and Saudi Arabia.

PROFESSIONAL SOCIETIES

- **Adviser** of many graduate projects of the final years students in the Field of Construction Management & Sustainability and Building Engineering, college of Arch. & Planning, University of Dammam, KSA.
- **Supervision** for many of Training Engineering Programs in the field of Construction Managements and Sustainable Construction in Saudi Arabia and Abroad.
- **Chairmanship**, Scientific Committee of the Building Technology day (2010), college of Arch. & Planning, University of Dammam, KSA
- **1981-present:** A member of the Egyptian Engineering Syndicate.
- **1986- Present:** The Egyptian Architects Association.
- **2008 - 2009 :** ARCOM “Association of Research”, UK
- **2005 -Present:** Saudi council of engineering.
- **2011- Present:** CIB International council for research and innovation” Australia.

PROFESSIONAL EXPERIENCE

Participated in designing & designed and directed plenty of architectural projects in Egypt and Gulf Area.