



FACULTY FULL NAME: MOHAMED ESSAM SHAAWAT

POSITION: Professor

Personal Data

Nationality | Egyptian

Date of Birth | 31 December 1957

Department | Building engineering – College of Arch. & Planning

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Language Proficiency

Language	Read	Write	Speak
Arabic	Excellent	Excellent	Excellent
English	V. Good	V. Good	V. Good
Others	-	-	-

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
1995	PHD	Cairo University	Cairo- Egypt
1988	MSc.	Alexandria University	Alexandria - Egypt
1981	BSc	Alexandria University	Alexandria - Egypt

PhD, Master or Fellowship Research Title: (Academic Honors or Distinctions)

PhD	Economic Constraints and their Impact on Efficiency of Construction Projects
Master	Development of Building Industry and Housing in the New Settlements of Egypt
Fellowship	

Professional Record: (Beginning with the most recent)

Job Rank	Date		
Professor	College of Arch. & Planning, Imam Abdulrahman Bin Faisal University	2014	Present
Associate Prof.	College of Arch. & Planning, Imam Abdulrahman Bin Faisal University	2009	2014
Assistant Prof.	College of Arch. & Planning, Dammam University	2005	2009



Former Professor	Faculty of Engineering, Shoubra, Banha University Cairo, Egypt.	2009	2022
Former Associate Prof	Faculty of Engineering, Shoubra, Banha University Cairo, Egypt.	2004	2009
Assistant Prof.	Faculty of Engineering, Shoubra, Zagazig University, Banha Branch, Cairo, Egypt.	1986	2004
Visiting Prof.	Dept. of Architectural Engineering and Environmental Design, College of Engineering and Technology (Alexandria, Cairo Branch), Arab Academy for Science & Technology and maritime transport, Egypt.	1999	2005
Lecturer	Faculty of Engineering, Alexandria university	1981	1986

Administrative Positions Held: (Beginning with the most recent)

Administrative Position	Office	Date
Post Graduate Director, Dept. of Building Engineering, College of Architecture & Planning, Imam Abdulrahman Bin Faisal University	310	2014 – Present
Post Graduate Director, College of Architecture & Planning, Dammam Imam University		2011 - 2014

Scientific Achievements

Published Refereed Scientific Research

(In Chronological Order Beginning with the Most Recent)

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	Abdulaziz S Almohassen*, Mohammed Alfozan, Othman Subhi Alshamrani, Mohamed Essam Shaawat	An Integrated AHP/MAUT-based Model to Evaluate the Construction Contractors for Tendering Stag	Submitted (October 19,2023) Alexandria Engineering journal
2	Abdulsalam Alsudairi, Afnan Baagil, Mohamed Essam Shaawat, Umaru Mohammed	Accessibility and Spatial Integration Evaluation of Masjids in Saudi Arabia Using Space Syntax	Journal of Engineering Research, Special Issue, The Mosque: Across-cultural Building, March 2023, Issn:2307-1877
3	Abdulsalam Alsudairi, Afnan Baagil, Mohamed Essam Shaawat, Umaru Mohammed	Accessibility and Spatial Integration Evaluation of Masjids in Saudi Arabia Using Space Syntax	3 rd International Conference on Mosque Architecture, November 14-16, 2022
4	Abdulaziz S Almohassen, Sarah Hamad Alsuliman, Mahmoud Sodangi, Mohammed E Shaawat, Alaa Salman Alobaidi, Khalid Saqer Alotaibi	Analyzing the rework causal factors due to human errors in construction projects	Submitted to International Journal of building Pathology and Adaptation” May 2023” under review
5	Mohamed Essam Shaawat, Saleh Mohammed Saed Alqahtani, Altayeb Qasem, Rehan Jamil , Abdulaziz S. Almohassen , Umar Mohammed Bongwirnso	A Performance Quality Index to Assess Professional Conduct 2 of Contractors at Sustainable Construction Projects in Saudi Arabia	MDPI, Sustainability Journal,2023, https://doi.org/10.3390



6	Abdulaziz S. Almohassen, Mohammed S. Alkhaldi, Mohammed Essam Shaawat	The effects of COVID-19 on safety practices in construction projects	Ain Shams Engineering Journal, Vol.14 Issue (1) Article 101834
7	Mohammed E. Shaawat, Abdullah Binomar, Abdulaziz S. Almohassen, Khalid Saqer. Alotaibi ,Mahmoud Sodang and Ahmad Aftab3b	Towards attaining efficient management of berth maintenance in Saudi Arabian Industrial Ports	Structural Monitoring and Maintenance, Vol. 10, No. 1 (2023) 25-42 https://doi.org/10.12989/smm.2023.10.1.025
8	Mohammed Essam Shaawat, Faris Abdulaziz Alfaraidy, Saleh Mohammed AlQahtani	Achieve the highest rate of safety and health for Construction workers in Sustainable Projects	Design Engineering Journal, Canada, 2021
9	Mohammed Essam Shaawat, Abdulaziz S. Almohassen, Ahmed Alhamd	A Practical Framework for Implementing Safety Assessment for High Rise Buildings projects	Industrial Engineering & Management Systems Journal, June, The Korean Institute of Industrial Engineers, 2020
10	Thamer Alzuriq, Mohamed Essam Shaawat, Altayeb Qasem	Development and Integration of RFID Simulation-Based Tool for Improved Schedule Performance in Saudi Arabia Precast Concrete Industry	International Journal of Engineering and Advanced Technology (IJEAT), April 2020
11	Mohammed Essam Shaawat, Mohammed Alyagoub	Building Commissioning Process in Accordance with the LEED Criteria	Journal of Advanced Research in Dynamical and Control Systems,2019
12	Mohammed Essam Shaawat, Mohamed Alyagoub	Supply Chain Management in Building Commissioning Process in accordance with the Leadership in Energy & Environmental Design (LEED)- A case Study of the KSA Construction Industry	International Journal of Supply Management (IJSCM), 2019
13	Al-Shamrani Othman & Shaawat, M. Essam	Construction Costs Forecasting Models for Apartments Buildings Using Linear Regression	1st Int. conf. on Urban Growth and Circular Economy, Alicante – Spain 2018
14	M. Essam Shaawat & et al	Analysis of Challenge Sustainable Construction Industry by using Hierarchy Process: a case study of Jubilee Industry city, Saudi Arabia	Int. J. Sustainable Real estate and Construction Economics,2018
15	Mahmoud Sodangi & M. Essam Shaawat et al	Exploring the Challenges in Utilization of BIM in maintenance management	The first International Conference on Mosque Architecture, University of Dammam, Saudi Arabia,2016
16	Othman Al Shamrani, M. Essam Shaawat & et al	Minimizing the Environmental Emissions associated with Energy Consumptions of Mosque Building	The first International Conference on Mosque Architecture, University of Dammam, Saudi Arabia,2016
17	Al-Shamrani Othman & Shaawat, M. Essam	Significance of Life Cycle costing for Selection of Building Construction Materials	International of Civil Structural and Construction Engineering Journal, 2015



18	M. Essam Shaawat & Othman Al-Shamrani	Guideline for Sustainable Waste Management from Design to Construction Stage in Saudi Arabia	Development, and Practice in Structural Engineering and Construction, 2015
19	Othman Al Shamrani & M. Essam Shaawat	Significance of Life Cycle costing for Selection of Building Construction Materials	Second Int. Conf. on Advances in Civil Structural and Construction Engineering. CSCE, Italy, 2015
20	M. Essam Shaawat, Rehan Jamil	A Guide to Environmental Building Rating System for Construction of New Building in Saudi	Emirates Journal for Engineering Research (EJER),2015
21	B. Umaru Mohammed, M. Essam Shaawat	Optimum Selection of a Sustainable Lighting System for a University Classroom in Saudi Arabia	IISTE, International Knowledge Sharing Platform,2014
22	Othman Al Shamrani & M. Essam Shaawat & Umaru Mohammed	Lack of Sustainability Assessment as a Rating Tool in the Building Industry	WSB14, Barcelona, Spain,2014



23	M. Essam Shaawat & Noman Ashraf	Comparative study of the 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.2013
24	Mohamed AL-Hefnawey & M. Essam Shaawat	Sustainability Threats policies in the Arab States: A Public Awareness Study	The Asian Conference on Arts and Humanities, Osaka, Japan,2012
25	M. Essam Shaawat, Mohamed AL-Hefnawey	Sustainability Threats and Responsive Policies in the Arab States	World Sustainable Building Conference SB 11 Helsinki, Finnish Association of Civil Engineers RIL, Finland.2011
26	M. Essam Shaawat & et al	Utilizing E-Management to Enhance the Performance of Operation Departments in Hospitals	Fourth e-Service Symposium in Eastern Province, Khobar, KSA. 2009
27	M. Essam Shaawat, & Alla Sarhan & Basuiony	A Value-Based Index as an Effective Mechanism for Improving the Architecture Low-Income of Low-Income Housing Projects	The Second Symposium of Charitable Affordable Housing in Saudi Arabia, Khobar, KSA, 2008
28	M. Essam Shaawat, & Alla Sarhan	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.2008
29	M. Essam Shaawat, Hashem Al-Saleh	An Approach to health damage management of building materials and its impact on the indoor environment of buildings	Ministry of Municipal & Rural Affairs, Building Technology Journal, Riyadh 2007
30	M. Essam Shaawat, Hisham Gaduo	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,2007
31	Mohamed Essam Shaawat	Applying Value Engineering Concept for Minimizing Waste Materials Hazard in Construction Sites	The Second Ain Shams University International Conference on Environmental Engineering, Cairo, Egypt,2007
32	Mohamed Essam Shaawat	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,2006



33	M. Essam Shaawat & et al	Sustainable Value in Designing and Implementing for Low-Income Housing Projects in Saudi	The First Symposium of Charitable and Affordable Housing in Saudi Arabia, Al- Khobar, KSA.2006
34	M. Essam Shaawat & et al	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,2005
35	M. Essam Shaawat, Ayman Alfie	T.Q.M as Approach for Developing Project Construction Performance	Arab Academy for Science & Technology & Maritime Transport, Scientific Journal, Alexandria, Egypt.2004
36	Mohamed Essam Shaawat, Sherif Al Desoki	The New Concept & Technology and their effect to Form the Building Facades in Egypt	7th International Conference, Al Azhar University, Cairo, Egypt.
37	M. Essam Shaawat, Sherif Al Desoki	The New Concept & Technology and their effect to Form the Building Facades in Egypt	Al Azhar Engineering Journal, Al Azhar University,2003
38	M. Essam Shaawat	The Role of Architect in Maintenance Considerations during the Design Phase	the faculty of Engineering, Scientific Journal, Helwan University, Cairo, Egypt,2003
39	Mostafa Gabr, M. Essam Shaawat	Heritage Value and Identity of the City (Post War Experience in Port Said City)	Fine Arts Collage, Scientific journal, Alexandria University, Egypt.2002
40	Ali Galb, M. Essam Shaawat	Square Statues as a Component of the City Decoration (Analytical Study of Statues in Cairo Squares)	the Faculty of Fine Arts Architecture Journal, Mania University, Egypt, 2002
41	Mostafa Gabr, M. Essam Shaawat	The role of Funding and Public Participation in upgrading the Urban Fabric of Cities	Faculty of Engineering Journal, Assuit University, 2002
42	Mohamed Essam Shaawat, Sherif Al Desoki	The Maintenance between Regulations and Appling in Buildings	the fifth international Conference for Building and Construction, Cairo, Egypt,1999
43	Mohamed Essam Shaawat	Materials as a Tool for Construction Success in Construction Site	the Fourth International Conference for Building and Construction, Cairo, Egypt. 1997



Refereed Scientific Research Papers Accepted for Publication

#	Name of Investigator(s)	Research Title	Journal	Acceptance Date

Scientific Research Papers Presented to Refereed Specialized Scientific Conferences

#	Name of Investigator(s)	Research Title	Conference and Publication Date

Completed Research Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
1	M. Essam Shaawat & et al	Analysis & Studies and Concept of Architectural Design for Mosques in Saudi Arabia "Book"	2016
2	Othman Al Shamrani & M. Essam Shaawat & et al	Selection of Construction Material based on Life Cycle Costing Technique	2015

Current Researches

#	Research Title	Name of Investigator(s)
1	Quality Performance Index (QPI) framework for building construction project in Saudi Arabia: a Delphi study	M. Essam Shaawat, Abdulaziz S. Almohassen Saleh AlQahtani
2	Developing a performance index (PI) for assessing Design Phases of Architectural Engineering (A/E) offices in Saudi Arabia.	M. Essam Shaawat, Abdulaziz Almohassen, Mohammed AlQahtani
3	Challenges Affecting Female Employment in a Construction site in Saudi Arabia	M. Essam Shaawat, Abdulaziz S. Almohassen, Alaa AlMansour
4	Human Error Causes Leading to Rework in Construction Projects	Abdulaziz S. Almohassen, M. Essam Shaawat, Sarah Al Sulaiman

Contribution to Scientific Conferences and Symposia

#	Conference Title	Place and Date of the Conference	Extent of Contribution
1	1st International Conference on Urban Growth and Circular Economy.	Alicante – Spain, 2018	Participate with research Paper,



2	4th Traffic safety Forum & Expiation, imam Abdulrahman Bin Feisal University, Saudi Aramco.	Dammam Saudi Arabia, 2017	Participate
3	1st International Conference on Mosque Architecture.	University of Dammam "imam Abdulrahman Bin Feisal University", Saudi Arabia,2016	Participation with Paper & Head of Scientific Committee
4	1st International Conference on Mosque Architecture	University of Dammam "imam Abdulrahman Bin Feisal University", Saudi Arabia,2016	Member of Organization Committee
5	World Sustainable Building Conference SB 14	the Green Building Council España (GBCe), Barcelona SGBC,2014	Participation with paper
6	Sustainable Building conference SB13	Graz University of Technology, Graz, Austria.2013	Participation with paper
7	Hosting, Major International Event, Innovation, Creativity Impact Assessment	HBRC, Cairo, Egypt,2013	Participate
8	Al Azhar Engineering 7th International Conference	Faculty of Engineering, Al Azhar University, Cairo, Egypt,2012	Participate with paper
9	The Saudi International Advanced Materials Technologies Conference & Building Technologies	King Abdul-Aziz City for Science & Technology "KACST, Riyadh, KSA,2012	Participate
10	Sustainability through Biomimicry conference	College of Design, Dammam, University of Dammam, KSA,2012	Participate
11	Building Information Modelling Conference "BIM"	Building Smart, Riyadh, KSA,2012	Participate
12	City 2020+ Engineering Life Quality for the future	RWTH Aachen University, Germany,2012	Participate
13	1st Saudi Renewable Energy Conference & Exhibition	The Centre of Research Excellence in Renewable Energy "CoRERE", King Fahd University of Petroleum & Minerals" KFUPPM", Dhahran, KSA,2012	Participate
14	6 th ASCAAD Conference 2012	The Kingdom University, Manama, Kingdom of Bahrain,2012	Participate
15	World Sustainable Building Conference SB 11 Helsinki	Finnish Association of Civil Engineers RIL, Finland,2011	Participate with paper
16	1st Built Environment Development Symposium: Real Estate Development and Sustainable Housing	The Eastern Chamber of Commerce, Dammam, university of Dammam 2010	Participate & Member of the Organization Committee



17	Future Intermediate Sustainable Cities	First International Conference on Sustainability and Future, The British University in Egypt, Cairo, Egypt,2010	Member of Scientific Committee
18	25 th Annual ARCOM Conference. Association of Research in Construction Management	ARCOM Nottingham, UK,2009	Participate
19	The Fifth e-Services Symposium in Eastern Province	King Faisal University & Alber Organization, Eastern Province, Khobar, KSA,2010	Member of Scientific Committee
20	The Fourth e-Services Symposium in Eastern Province	King Faisal University & Alber Organization, Eastern Province, Khobar, KSA,2009	Member of Scientific Committee
21	“Symposium “in -Virtual Reality Technology -GIS Geographic Information Systems -Membrane Structures	Academic collaboration agreement with King Faisal University and Stuttgart. Germany,2009	Participate
22	Disaster Management & Safety of Building in Arab Countries	Ministry of Municipal and Rural Affairs, Riyadh, KSA,2008	Participate with Paper
23	“symposium” in - Tents Cities of Hajj Mena - Clock and Tents in King Abdul-Aziz Tower - Umbrellas in the Prophet Holy Mosque	LS- Rash (Light Weight Structure) Stuttgart Germany,2007	Participate
24	The third e-Services Symposium in Eastern Province	King Faisal University & Alber Organization, Eastern Province, Khobar, KSA,2009	Member of Scientific Committee
25	Second Ain Shams University Conference on Environmental Engineering	Faculty of Engineering, Ain Shams University, Cairo, Egypt,2007	Participate with Paper
26	10th Gulf Engineering Forum	Khobar, KSA,2006	Participate
27	First International Conference of Architecture and Urban Planning ARUP	Ain Shams University, Faculty of Engineering, Cairo, Egypt,2006	Participate with Paper
28	The First Symposium of Charitable and Affordable Housing in Saudi Arabia	King Faisal University & Alber Organization, Eastern Province, Khobar, KSA,2006	Member of Scientific Committee
29	The 3rd International Scientific Conference, Appropriating Architecture & Urbanism in the Decades of Transformation	Faculty of Engineering, Cairo University, Cairo, Egypt,2006	Participate



30	Kuwait First Value Engineering Conference and Exhibition, the Gulf Third Value Engineering Forum	SAVE International–Gulf Chapter, Kuwait,2005	Participate with Paper
31	The 1st International Scientific Conference, Sustainable Architectural & Urban Development, Cairo, Egypt	Faculty of Engineering, Cairo University, Cairo, Egypt,2004	Participate
32	Al Azhar Engineering 7th International Conference	Faculty of Engineering, Al Azhar University, Cairo, Egypt.	Participate with Paper
33	Seventh Scientific Conference	The Faculty of Fine Arts, Architecture Dept. Mania University, Mania, Egypt.	Participate with Paper
34	The 4th International Conference on Architecture and Urbanization	Assuit University, Faculty of Engineering, Assuit, Egypt.	Participate with Paper
35	7th International conference for Building & Construction	Cairo, Egypt,2000	Participate with Paper
36	The 5th International Conference for Building and Construction	Cairo, Egypt,1999	Participate with Paper
37	The 4th International Conference for Building and Construction	Cairo, Egypt,1997	Participate with Paper

Membership of Scientific and Professional Societies and Organizations

- Member of the Egyptian Engineering Syndicate
- The Egyptian Architects Association
- Saudi Council of Engineering
- ARCOM “Association of Research”, UK
- CIB International council for research and innovation

Teaching Activities

Undergraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Design Studio -10 - Integrated Design Systems	BSTC- 502	Design
2	Design Studio -9 - Integrated Design Systems	BSTC- 501	Design



3	Design Studio - 8 Environmental Performance	BSTC- 402	Design
4	Design Studio – 7 Structural Systems	BSTC- 401	Design
5	Cost Estimation & Specification	BSTC- 511	15 Lecture
6	Building Management	BSTC- 452	15 Lecture
7	Engineering Economy	BSTC- 451	15 Lecture
8	Construction System I	BSTC- 311	15 Lecture
9	Construction System II	BSTC- 212	15 Lecture
10	Construction Equipment (Elective)	BSTC- 561	15 Lecture
11	Risk Engineering 9 (Elective)	BSTC- 563	15 Lecture

Brief Description of Undergraduate Courses Taught: (Course Title – Code: Description)

Design Studio -10 - Integrated Design Systems - BSTC- 502
This course is the second part of the graduation project, which is the integrated design covering all building disciplines. This course has mainly two parts. In the first part, the students are expected to finalize the integrated design project by revising, modifying, and completing the design project of the previous semester (BSTC 501- Integrated Design).
Design Studio -9 - Integrated Design Systems – BSTC- 501
This is the first part of the graduation project, where the students are expected to apply every skill they gained in the preceding years in order to develop the complete design of a building. The design process incorporates all aspects of buildings such as architecture, structure, materials, construction, HVAC, plumbing, electrical, lighting
Design Studio - 8 - Environmental Performance & Building Information Modeling (BIM) - BSTC- 402
The course focuses to teach students how to utilize powerful computer modeling and simulation packages. Building Information Modeling (BIM) represented by Revit, STAAD PRO, Design Builder, and Dialux software, to model and assess the behavior of buildings from structural, construction, mechanical, Lighting, and, thermal points of view
Design Studio - 7 - Special Structural Systems - BSTC- 401
This course focuses on the development of students’ technical knowledge, understanding, and awareness of the design and uses of special structural systems in their projects. This technical design is to address constructional efficiency, functional requirements, structural requirements, environmental performance, and sustainable issues
Cost Estimation & Specification - BSTC- 511
This course introduces principles and techniques for estimating construction costs with an emphasis on quantity take-off and pricing elements of construction works. Learning includes components of direct and indirect costs, database, work breakdown, and estimate structure using CSI Uniform and Master Format
Building Management - BSTC- 452
This course focuses on the principles and fundamentals of project management for a building. The course will discuss the process of preparing the project bid package and types of construction contracts and bid documents



Engineering Economy - BSTC- 451
This course provides the student with the principles and fundamentals of Building Economics, introductions to financial and economic concepts that confront building construction, engineering, and design, and professional and appraisal techniques which simplify comparisons
Construction Systems I - BSTC- 311
The course builds on the knowledge gained in Construction Systems & Materials. Revision of the basic construction systems such as foundation systems, floor systems, wall systems, and roof systems is undertaken. Additionally, students will learn about the basic building components such as doors & windows, moisture & thermal protection, glass systems, and special construction
Construction Systems II - BSTC- 312
This course enforces the knowledge gained in both construction systems and materials, and construction systems I. Issues are discussed in more depth. These issues include selecting different construction systems with regard to structural, construction, and architectural requirements
Construction Equipment (Elective) - BSTC- 561
The course introduces principles and adequate knowledge about different construction equipment and their appropriate application in construction sites. Learning includes the classification of construction equipment such as earthmoving equipment, concrete equipment, and lifting equipment.
Risk Management (Elective) - BSTC- 563
This course is structured to provide an in-depth understanding on risk assessment and management techniques, methods, and models used in industry to minimize, control and communicate risks

Postgraduate

#	Course/Rotation Title	No./Code	Extent of Contribution (no. of lectures/Tutorials. Or labs, Clinics)
1	Engineering Economy, Accounting, and Financial Management	MCEM- 602	13Lectures + 2 Tutorials
2	Advanced Planning and Control Technique	MCEM-604	13Lectures + 2 Tutorials
3	Value Engineering	MCEM-607	12Lectures + 3 Tutorials (workshop)
4	Construction Management and Field Practice	MCEM-608	13Lectures + 2 Tutorials
5	Capstone Project	MCEM- 680	Weekly Meeting + Presentation
6	Master Thesis	MCEM- 690	Weekly Meeting + Presentation

Brief Description of Postgraduate Courses Taught: (Course Title – Code: Description)

Master of Construction Engineering Management “MCEM”

1	Engineering Economy, Accounting, and Financial Management MCEM- 602
	This course focuses on economic analysis and its role in engineering decision-making, accounting techniques, and financial management. It introduces the cost concepts, economic environment, time value of money, accounting, and financing. It covers topics related to the feasibility analysis of projects, economic comparison of alternatives, and evaluation of projects in the private and public sectors



2	Advanced Planning and Control Technique MCEM-604
	This course provides students with knowledge of planning and advanced control techniques that help the engineer in understanding and solution identification of complex planning, monitoring, and control problems in the construction industry. Examine the elements of critical path planning and scheduling methods using: network diagrams; bar charts; time, resources, and cost relationships; resource leveling; cash flow; monitoring and updating of project schedules
3	Value Engineering MCEM-607
	This course introduces the students to the concept of value in Engineering (VE). VE is an organized approach to providing the necessary functions at the lowest costs. This course provides students with knowledge and techniques of working in a multi-disciplinary team to produce outcomes that demonstrate good value in programs, projects, systems, services, or products
4	Construction Management and Field Practice MCEM-608
	This course provides sufficient knowledge to students about green management and operations of construction sites from the pre-construction stage to the close -post-construction and commissioning stage. This course will cover management methods in construction; waste management, water management, energy management, environmental impact, Life Cycle Assessment, sustainability vocabulary in subcontracts, methods of improving workers' safety and health in construction sites, sustainable rating systems (LEED - BREEAM...etc.)
5	Capstone Project MCEM- 680
	This course is designed as a capstone project for final year students taken in their last semester. This course is designed to enable students to apply knowledge, skills, and other techniques acquired in the program independently or in groups
6	Master Thesis MCEM- 690
	The thesis is a project that marks the end of a master's program. It is an original study that represents the results of the student's independent research work and presents his research findings

Master of Building Science (Construction Management Track)

1	Building Management. BUSC – 604
	General management: quantities, responsibilities, organization, administration, control, ratio chart, and statistics. Production: planning, programming, work-study. Finance: accounts, budgets, taxation, capital, yield. Marketing: recruitment training, safety, health, welfare. Procurement: purchasing, quality, assurance, contract negotiation. Scientific management: background evolution, application, "tools", modeling, simulation
2	Engineering Economy. BUSC-640
	Definition in relation to building construction and maintenance operations. Fundamentals and concept: supply and demand, time value of money, capital, interest rate types and growth, interest formulas and equivalence calculations cost accounting. Economic analysis of alternative proposals during building phases. Economic analyses of building construction operations
3	Evaluative Engineering: (Value Management) BUSC - 644
	The "Value management" concept, evaluation, and development. Ordering and organization data [social, environmental, etc. .]. Individual relationships and macroscopic data [its equilibrium and judgment].



Course Coordination

#	Course Title and Code	Coordination	Co-coordination	Undergrad	Post grad.	From	To
1	Design Studio -10 - Integrated Design Systems	✓		✓		2006 2018	2008 2019
2	Design Studio -9 - Integrated Design Systems	✓	✓	✓		2006 2022	2008 Present
3	Design Studio - 8	✓		✓		2010	Present
4	Design Studio - 7	✓		✓		2010	Present
5	Cost Estimation & Specification	✓		✓		2007	Present
6	Building Management	✓		✓		2014	Present
7	Engineering Economy	✓		✓		2007	2016
8	Construction System I	✓		✓		2012	2014
9	Construction System II	✓		✓		2012	2014
10	Construction Equipment	✓		✓		2018	2019
11	Risk Management	✓		✓		2015	2016

Student Academic Supervision and Mentoring

#	Level	Number of Students	From	To
1	حسين علي بن سلمان آل الثعلب	2190003212	2022	Present
2	عبدفلا مسفر سعيد الحمري	2200003497	2022	Present
3	بدر خالد صباح العطوي	2200003897	2022	Present
4	رضا كاظم بن عبدالعطي المحاسنه	2200004028	2022	Present
5	سعد بدر سعد الحزيم	2210001724	2022	Present

Ongoing Research Supervision

#	Degree Type	Title	Institution	Date
1	Master	Development of a framework to enhance communication practice in construction project	Building engineering Dept. IAU	2022
2	Master	Implementing lean management theory to improve construction performance in Saudi Arabia	Building engineering Dept. IAU	process



Supervision of Master Research

#	Degree Type	Title	Institution	Date
1	Master	Developing a performance index (PI) for assessing the Design Phase, of Architectural Engineering (A/E) offices in Saudi Arabia.	Building engineering Dept. IAU	2022
2	Master	Challenges affecting female employment on a construction site in Saudi Arabia	Building engineering Dept. IAU	2022
3	Master	Quality performance index (QPI) framework for building construction projects in Saudi Arabia	Building engineering Dept. IAU	2022
4	Master	A Performance assessment model for university hostel in KSA	Building engineering Dept. IAU	2020
5	Master	Solutions and procedures to avoid claims and disputes in construction projects in KSA	Building engineering Dept. IAU	2019
6	Master	Evaluation of building commissioning process according to the LEED new construction projects in Saudi Arabia	Building engineering Dept. IAU	2018
7	Master	Sustainability and environmental assessments on the residential construction sites in the eastern region of K.S. A	Building engineering Dept. IAU	2017
8	Master	Challenges facing the implementation of sustainability in construction projects in Saudi Arabia: new settlements	Building engineering Dept. IAU	2015
9	Master	Utilizing an Electronic management system to enhance the performance of the support services (operation) departments in king Abdulaziz hospital Al-Ahsa	Building engineering Dept. IAU	2015
10	Master	Value dimension in investment housing projects in Al-Khobar city in the Eastern Province of Saudi Arabia	Building engineering Dept. IAU	2014
11	Master	Main factors affecting value engineering application in Saudi Aramco projects	Building engineering Dept. IAU	2014
12	Master	The maintenance critical factors affecting the life cycle cost of the office building in the eastern province of Saudi Arabia	Building engineering Dept. IAU	2013
13	Master	Building maintenance management in Jubal industrial city "An approach for the effective selection of façade in an area with high industrial emissions"	Building engineering Dept. IAU	2009



Administrative Responsibilities, Committee, and Community Service (Beginning with the most recent)

Administrative Responsibilities

#	From	To	Position	Organization
1	2011	2014	Postgraduate Coordinator	College of Arch.& Planning - IAU
2	2014	Present	BE. Postgraduate Coordinator	College of Arch.& Planning - IAU

Committee Membership

#	From	To	Position	Organization
1	2022	Present	Head	Principle Committee of academic accreditation for Master's Program of Construction Engineering and Management
2	2022	present	Head	Standard 1 Committee - (PROGRAM MANAGEMENT AND QUALITY ASSURANCE) of Academic Accreditation for Master's program in Construction Engineering and Management
3	2020	Present	Member	Development of Undergraduate Building Engineering Program
4	2020	Present	Member	Ph.D. Committee (Establish Architecture Engineering Ph.D. Program)
5	2012	Present	Head	Principle committee for developing Building Science Program "Current Master Program" Dept. of Building Engineering, College of Arch. & Planning, Imam Abdulrahman Bin Faisal University.
6	2018	2019	Member	Green Heritage International Conference "Chance-Change-Challenge" BUE Nottingham Trent University, Cairo, Egypt.
7	2017	2018	Head	Principle Committee for establishing Master Program in "Constructing Engineering Management-MCEM" Dept. of Building Engineering, College of Arch. & Planning, Imam Abdulrahman Bin Faisal University.
8	2014	Present	Head	Postgraduate Committee
9	2017	2018	Member	Prince Sultan Bin Salman Chair for Mosques Architecture
10	2016	-	Head	Scientific Committee, the First International Conference on Mosque Architecture, University of Dammam "imam Abdulrahman Bin Feisal University"
11	2016	-	Member	Executive Committee, the First International Conference on Mosque Architecture, University of Dammam "imam Abdulrahman Bin Feisal University"
12	2015	2016	Member	Strategic committee of NCAAA for Accreditation of Building Engineering Program.
13	2014	2016	Head	Steering committee for 5,9,11 standers, NCAAA for Building Engineering Program
14	2012	2014	Member	Steering committee for establishment of the sustainable research center, college of Arch. & planning, University of Dammam, KSA
15	2010	-	Head	Scientific Committee of the Building Technology day (2010), college of Arch. & Planning, University of Dammam, KSA



16	2009	2010	Head	Committee for Developing the Academic Undergraduate Program of Building Science & Technology Department, college of architecture & planning, King Faisal University.
17	2006	2008	Member	Development of the preliminary proposal and establishment for the College of Engineering, King Faisal University- Dammam Branch, KSA
18	2007	2008	Member	Committee responsible for the three College of the preparatory year program, King Faisal University, Dammam Branch, KSA.
19	2007	2008	Member	NCAAA for Architecture program; responsible for areas 4,6,7
20	2006	2007	Member	The scientific committee for "The First & second Symposium of Charitable and Affordable Housing in Saudi Arabia", KSA.

Scientific Consultations

#	From	To	Institute	Full-time or Part-time
1	2014	2016	Member of founded Consultant Office for Architectural & Engineering Services, College of Arch. & Planning, Imam Abdulrahman Bin Faisal University.	Part-time
2	2015	2018	Vice present of Center for Urban Studies and Consultation, College of Arch. & Planning, Imam Abdulrahman Bin Faisal University	Part-time
3	2008	-	King Abdullah foundation for his parents for charitable housing (Third award), Medina, KSA. "Architectural competition	Part-time
4	2008	2009	Architectural Concept, Tawaf Area (Mataaf) expansion project, the general presidency for affair the grand mosque and prophet mosque, Macca, KSA	Part-time
5	2007	2008	Development of Jubilee technical institute "Concept design, Saudi Consultant Services, Al Riyadh branch, Royal commission for Jubilee and Yanbu, extension Project.	Part-time
6	2014	2016	Analysis & Studies for different types of Mosques in Saudi Arabia "Book", Abdullatif Al Fozan Award for Mosque Architecture.	Part-time
7	2014	2016	Concept Design for different types of Mosques in Saudi Arabia "Book", Abdullatif Al Fozan Award for Mosque Architecture.	Part-time



Volunteer Work

#	From	To	Type of Volunteer	Organization
1	2020	2021	Supervision	Development of central fruits and vegetable central market in Dammam
2	2020	2021	Supervision	Establishment of the first digital club for gamed
3	2020	2020	Supervision	Tourism map and guide for the eastern province
4	2020	2020	Supervision	Development of digital mapping in eastern shopping centers
5	2019	2020	Supervision	Value Engineering for a school building in the city of Dhahran Value Engineering for a Nursery Building in Al Hasha

Personal Key Competencies and Skills: (Computer, Information technology, technical, etc.)

1	Communication
2	Negotiations
3	Team Leader
4	Public Speaking
5	Project Manager
6	Multitasks
7	Community participation
8	Project Planning and Control

Last Update

Shaawat.... / February /2023