



FACULTY FULL NAME: Muhammad SALEEM

POSITION | **Professor**

Personal Data

Nationality | Pakistani

Date of Birth | March 30th, 1983

Department | Mechanical and Energy Engineering (Previously: Basic Engineering)

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Personal Webpage | <https://www.iau.edu.sa/en/colleges/college-of-engineering/faculty/dr-muhammad-saleem>

Language Proficiency

Language	Read	Write	Speak
Arabic	X		
English	X	X	X
Japanese	X	X	X
Urdu	X	X	X
Punjabi	X	X	X

Academic Qualifications (Beginning with the most recent)

Date	Academic Degree	Place of Issue	Address
2008-2011	PhD - Department of Civil Engineering on Full Scholarship	Yokohama National University, Yokohama, Japan	Yokohama, Japan
2006-2008	M.Sc. – Engineering Materials on Full Scholarship	University of Engineering and Technology, Lahore, Pakistan	Lahore, Pakistan
2002-2006	B.E. / B.Sc. - Civil Engineering on Partial Scholarship	University of Engineering and Technology, Lahore, Pakistan	Lahore, Pakistan

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

PhD	Fully Funded Scholarship from Japanese Government (MEXT)
Engineering Management	Winner of Competitive Funded Training Program in Engineering Management from Yokohama National University
Master	Fully Funded Scholarship from UET Lahore, Pakistan
College	Fully Funded Scholarship from Govt. College Lahore, Pakistan
High School	Bronze Medalist at Highschool Exam

Professional Record: (Beginning with the most recent)

Job Rank	Place and Address of Work			Date
Professor	IAU	Department of Mechanical and Energy Engineering	KSA	Oct. 2022-Present
Associate Professor	IAU	Department of Mechanical and Energy Engineering	KSA	Oct. 2016- Oct. 2022
Assistant Professor	IAU	Department of Mechanical and Energy Engineering	KSA	Sep. 2013-Oct. 2016
Assistant Professor	UET	Department of Civil Engineering	Pakistan	Dec. 2011-Sep. 2013
Lecturer	UET	Department of Civil Engineering	Pakistan	Feb. 2006-Dec. 2011
JGC-Descon	JGC Japan	Project Engineer	Pakistan	Dec. 2005-Mar. 2006
Consulting Professional Engineer	UET, IAU	NDT, Material Testing – Freelancing Projects	KSA, Pakistan	Dec. 2005-Till date

Personal Research and Profile WEBLINKS:

Webpage	Profile Link
University Profile:	https://www.iau.edu.sa/en/colleges/college-of-engineering/faculty/dr-muhammad-saleem
Orcid:	http://orcid.org/0000-0001-5194-5483
Web of Science:	http://www.researcherid.com/rid/B-1916-2015
Scopus:	https://www.scopus.com/authid/detail.uri?authorId=55836463200
LinkedIn:	https://www.linkedin.com/in/dr-muhammad-saleem-b7a01052/
Google Scholar:	https://scholar.google.com/citations?hl=en&user=z7-A41oAAAAJ
Research Gate:	https://www.researchgate.net/profile/Muhammad_Saleem58/publications



Administrative Positions Held:

Administrative Position	Office	Date
Chairman of Board of Director for Master of Safety Engineering	CoE, IAU	2023 – Till Date
Advisory Committee in the Directorate of Curriculum and Academic Programs (DCAP) at Vice Presidency for Academic Affairs	CoE, IAU	2018 – Till Date
Advisory Board Member, Mechanical and Energy Engineering Department, College of Engineering	CoE, IAU	2021 – Till Date
Chairman – Student Placement and Summer Training	CoE, IAU	2020 – Till Date
Chairman – Website Development	CoE, IAU	2014 – Till Date
Chairman – Safety and Security Unit	CoE, IAU	2015 – Till Date
Chairman – Strategic Plan Development for CoE IAU and Risk Management Committee	CoE, IAU	2014 – Till Date



Chairman – Standing Committee for ABET Accreditation and Academic Quality Management	CoE, IAU	2022 – Till Date
Member FABLAB prototyping development Center	CoE, IAU	2018 – Till Date
Secretary –Academic Program Development & Review Committee	CoE, IAU	2016 – Till Date
Chairman – Academic Quality Assurance Unit	CoE, IAU	2013-2014, 2016 – 2018
Member ABET Accreditation Technical Review Committee	CoE, IAU	2014 – 2019
Secretary – Hiring Announcement, Advertisement and Short-Listing Committee	CoE, IAU	2014 – 2018
Chairman – Community Service & Sustainable Development Unit	CoE, IAU	2016 – 2018
Deputy Director Test Floor Laboratory	UET, Lhr	2006-2008, 2011-2013
Deputy Director Earthquake Engineering Center	UET, Lhr	2011-2013
Deputy Director Strength of Materials Laboratory	UET, Lhr	2011-2013
Member Commercial Testing and On-Site Investigation Team	UET, Lhr	2006-2008, 2011-2013

Scientific Achievements

Published Refereed Scientific Research

#	Name of Investigator(s)	Research Title	Publisher and Date of Publication
1	M. Saleem	Internal Damage Detection in Reinforced Concrete Member Using Non-destructive Testing	2023, Journal of Construction Engineering and Management (under review). Impact Factor: 5.1 ISSN: 0733-9364, ISSN (online): 1943-7862
2	M. Saleem & Akira Hosoda	Photoluminescent Phase Change Traffic Signs for Improved Road Awareness	2023, <i>Structural Concrete</i> (Submission Pending). Impact Factor: 2.793 ISSN: 1464-4177; Online ISSN:1751-7648
3	M. A. Aziz, Z. Mukarram, M. Saleem , Yasir M. Alharthi, N. Ashraf, K. S. Alotaibi & Omer Aga	Destructive, Nondestructive and Thermal Testing of Biochar-Mortar composite	2023, <i>Biomass Conversion and Biorefinery</i> , pp. 1-14 (Published Online). DOI: https://doi.org/10.1007/s13399-023-03838-1 Impact Factor: 4.050 ISSN: 2190-6815
4	Alshamrani, S. D. O, M. Saleem , Ibrahim Khalil AlYousif & Ayed Alluqmani	Development of a Pre-Qualification and Selection Framework for Construction Projects' Contractors in Saudi Arabi	2023, Journal of Asian Architecture and Building Engineering, VOL. 22, No. 3, 1545–1563. DOI: https://doi.org/10.1080/13467581.2022.2087657 Impact Factor = 0.904 ISSN: 1346-7581
5	M. Saleem	Modeling and Optimization of Infill Material Properties of Post-Installed Steel Anchor Bolt Embedded in Concrete Subjected	2022, <i>Smart Structures and System</i> , Vol. 29, No. 3, pp. 445-455. DOI: https://doi.org/10.12989/sss.2022.29.3.445

		to Impact Loading	Impact Factor = 3.557 ISSN: 1738-1584 (Print); ISSN: 1738-1991 (Online)
6	Akira Hosoda, Adnan Akmal, Yuto Toshida & M. Saleem	Prediction of Maximum Crack width by Machine Learning Using Concrete Construction Data in Yamaguchi System	2022, <i>JSCE Structural Engineering Committee, International Journal of Intelligence, Informatics, and Infrastructure, Data Science Papers</i> , Vol. 3, No. J2, pp. 898-905. DOI: https://doi.org/10.11532/jsceiii.3.J2_898 ISSN: 2435-9262
7	Akira Hosoda, Adnan, A., M. Saleem & Yuto Yoshida	Improvement of Artificial Neural Network Model for Thermal Crack Width in RC Abutments Using Actual Construction Data	2022, <i>Proceedings of Japanese Concrete Institute - JCI Annual Proceedings</i> , Vol.44, No. 1, pp. 970-975.
8	S. Mahmoud, M. Saleem , A. Hasanain, H. El-Sokkary, M. Elsharawy, M. genidy, A. Abd-Elhamed	Structural Response and Damage Evaluation of a Typical Highrise RC Building in Dubai Under an Earthquake with Single and Multiple Peaks	2022, <i>Journal of Civil Engineering and Management</i> , Vol. 28, Issue 7, pp. 509–522. DOI: https://doi.org/10.3846/jcem.2022.16957 Impact Factor = 2.338 ISSN: 1392-3730; eISSN 1822-3605
9	Mukarram Zubair, Nuhu Dalhat Muazu, Muhammad Nasir, Mohammad Saood Manzar, Muhammad Arif Aziz, M. Saleem , Mamdouh A.Al-Harathi	Cellulose nanocrystals from office paper waste for green concrete: Process optimization modeling, characterization, and mechanical testing	2022, <i>Arabian Journal for Science and Engineering</i> , Vol. 1, No. 1, pp. 1-17. DOI: https://doi.org/10.1007/s13369-022-06609-8 Impact Factor: 2.334 ISSN: 2191-4281; E-ISSN: 1319-8025
10	M. A. Aziz, Z. Mukarram, and M. Saleem	Development and Testing of Cellulose Nanocrystal-based Concrete	2021, <i>Case Studies in Construction Materials</i> , Vol. 15, pp. 1-21 DOI: https://doi.org/10.1016/j.cscm.2021.e00761 Impact Factor = 6.20 ISSN: 2214-5095
11	Ibrahim Almadani, Ibrahim Osman, Nasir Hariri, M. Saleem , Nagmeldeen Hassanain	Investigating the Effects of Solar Tracking Systems on Thermal Profile of Photovoltaic Modules	2021, <i>International Journal of Renewable Energy Research</i> , Vol.11, No.4, pp. 1561-1569. DOI: https://www.ijrer.org/ijrer/index.php/ijrer/article/view/12344 Impact Factor = 5.127 ISSN: 1309-0127
12	M. Saleem & Akira Hosoda	Development and Testing of Glow-in-the-Dark Concrete Based Raised Pavement Marker for Improved Traffic Safety	2021, <i>Journal of Civil Engineering and Management</i> , Vol. 27, No. 5, pp. 278-287. DOI: https://doi.org/10.3846/jcem.2021.14902 Impact Factor = 2.338 ISSN: 1392-3730
13	M. Saleem & Akira Hosoda	Latin Hypercube Sensitivity Analysis and Non-destructive Test to Evaluate the Pull-out Strength of Steel Anchor Bolts Embedded in Concrete	2021, <i>Construction and Building Materials</i> , Vol. 290, No. 123256. DOI: https://doi.org/10.1016/j.conbuildmat.2021.123256 . Impact Factor: 7.693 ISSN: 0950-0618
14	M. Saleem & Hector Gutierrez	Using Artificial Neural Network and Non-destructive Test for	2021, <i>Structural Concrete</i> , Vol. 22, No. 5, pp. 2849-2867. DOI:

		Crack Detection in Concrete Surrounding the Embedded Steel Reinforcement	https://doi.org/10.1002/suco.202000767 Impact Factor: 2.793 ISSN: 1464-4177; Online ISSN:1751-7648
15	Zaher Sulaiman, M. SALEEM , Alshamrani, S. D. O. & M. Sodangi	Complexity Rate Assessment Modeling for Mass Housing Projects in Saudi Arabia	2021, <i>Journal of Civil Engineering and Management</i> , (Under Review). Impact Factor = 2.250 ISSN: 1562-3599
16	Abdulrhman, M., Alqahtani, M., D., Abdulmalik A., M. Saleem	Fundamental Study Related to The Development of Modular Solar Panel for Improved Durability and Repairability	2021, <i>IET Renewable Power Generation (RPG)</i> , Vol. 15, No. 7, pp. 1382-1396. DOI: https://doi.org/10.1049/rpg2.12079 Impact Factor = 3.981 ISSN: 1752-1416 (Print); ISSN: 1752-1424
17	M. Saleem & G. A. Fahad	Multi-Attribute Analysis of Micro-defect Detection Techniques Suitable for Automated Production Line of Solar Wafers and Cells	2020, <i>IET Renewable Power Generation (RPG)</i> , Vol. 14, No. 9, pp. 1413-1423. DOI: https://doi.org/10.1049/iet-rpg.2019.0904 . Impact Factor = 3.981 ISSN: 1752-1416 (Print); ISSN: 1752-1424
18	M. Saleem & M. A. Almahayitah	Development of non-destructive testing method to evaluate the bond quality of reinforced concrete beam	2020, <i>Structural Engineering & Mechanics</i> , Vol. 74, No. 3, pp. 313-323, 2020. DOI: https://doi.org/10.12989/sem.2020.74.3.313 . Impact Factor: 2.804 ISSN: 1225-4568
19	M. Saleem	Assessing the load carrying capacity of concrete anchor bolts using non-destructive tests and artificial multilayer neural network	2020, <i>Journal of Building Engineering</i> , Vol. 30, No. 101260, pp. 1-13, 2020. DOI: https://doi.org/10.1016/j.jobe.2020.101260 Impact Factor: 2.378 ISSN 2352-7102
20	M. Saleem , Nawaf, I. B., Alshamrani, S. D. O., Abdulaziz, B.	Fundamental investigation of solid waste generation and disposal behavior in higher education institute in the Kingdom of Saudi Arabia	2019, <i>Indoor and Built Environment</i> , Vol. 28, No. 7, pp. 927–937. DOI: https://doi.org/10.1177/1420326X18804853 Impact Factor: 1.716 ISSN: 1420-326X
21	M. Saleem & N. Blaisi	Development, testing, and environmental impact assessment of glow-in-the-dark concrete	2019, <i>Structural Concrete</i> , Vol. 20, pp. 1792-1803. DOI: https://doi.org/10.1002/suco.201800221 Impact Factor: 2.793 ISSN: 1464-4177; Online ISSN:1751-7648
22	M. Saleem	Multiple crack extension model of steel anchor bolts subjected to impact loading	2018, <i>Construction and Building Materials</i> , Vol. 180, pp. 364-374. DOI: https://doi.org/10.1016/j.conbuildmat.2018.05.275 . Impact Factor: 4.419 ISSN: 0950-0618
23	M. Saleem	Cyclic shear-lag model of steel bolt for concrete subjected to impact loading	2018, <i>Journal of Materials in Civil Engineering</i> , Vol. 30, No. 3, pp.1-9. DOI: https://doi.org/10.1061/(ASCE)MT.1943-5533.0002204 , Impact Factor: 1.43,

			ISSN: 0899-1561
24	M. Saleem	Evaluating the pull-out load capacity of steel bolt using Schmidt hammer and ultrasonic pulse velocity test	2018, <i>Structural Engineering & Mechanics</i> , Vol. 65, No. 5, pp. 601-609, 2018. DOI: https://doi.org/10.12989/sem.2018.65.5.601 . Impact Factor: 2.804 ISSN: 1225-4568
25	M. Sodangi, A. F. Salman, & M. Saleem	Building information modeling: awareness across the subcontracting sector of Saudi Arabian construction industry	2018, <i>Arabian Journal for Science and Engineering</i> , Vol. 43, pp. 1807-1816. DOI: https://link.springer.com/article/10.1007%2Fs13369-017-2756-z Impact Factor: 2.334 ISSN: 2191-4281; E-ISSN: 1319-8025
26	M. Saleem	Study to detect bond degradation in reinforced concrete beams using ultrasonic pulse velocity test method	2017, <i>Structural Engineering & Mechanics</i> , Vol. 64, No. 4, pp. 427-436. DOI: https://doi.org/10.12989/sem.2017.64.4.427 Impact Factor: 2.804 ISSN: 1225-4568
27	M. Saleem , M. Shami & M. Najjar	Development, testing, and implementation strategy of a translucent concrete-based smart lane separator for increased traffic safety	2017, <i>Journal of Construction Engineering and Management</i> , Vol. 143, No. 5, pp. 1-8. DOI: https://doi.org/10.1061/(ASCE)CO.1943-7862.0001240 Impact Factor: 5.1 ISSN: 0733-9364, ISSN (online): 1943-7862
28	W. A. Kutti, M. Saleem , N. M. Akhras	Numerical and experimental study on the performance of confined concrete subjected to compressive loading	2017, <i>Engineering Journal of King Abdulaziz University: Engineering Sciences</i> , Vol. 27, No. 2, pp. 35-48. Doi: 10.4197/Eng. 27-2.3. ISSN: 1319-1047
29	M. Saleem & M. Nasir	Bond evaluation of concrete bolts subjected to impact loading	2016, <i>Materials and Structures</i> , Vol. 49, Issue 9, pp 3635-3646, DOI: https://doi.org/10.1617/s11527-015-0745-9 , Impact Factor 2016 – 2.453.
30	M. Saleem , W. Al-Kutti, N. Al-Akhras & H. Haider	Non-destructive testing method to evaluate the load carrying capacity of concrete anchors	2016, <i>Journal of Construction Engineering and Management</i> , Vol. 142, No. 5. DOI: https://doi.org/10.1061/(ASCE)CO.1943-7862.0001105 http://ascelibrary.org/doi/full/10.1061/(ASCE)CO.1943-7862.0001105
31	M. Saleem & M. A. Ameer	Shake table evaluation of low-cost strengthening technique for unreinforced brick masonry columns	2016, <i>Engineering Journal of King Abdulaziz University, KSA</i> , Vol. 26, No. 2.
32	M. Saleem	Investigating the effect of impact loading generated due to moving truck wheel on smart road lane separator	2016, <i>Qassim University Journal of Engineering and Computer Sciences</i> , Vol. 9, No. 2, pp. 85-99.
33	S. A. Osman, M. Saleem , R. M. Sajid, and M. A. Khan	Development of a polymer modified flexible pavement material for sustainable	2016, <i>Journal of Engineering and Applied Sciences (JEAS) Majmaah University</i> , Vol. 3, No. 1, pp. 26-36.



		pavement system	
34	M. Saleem	Cyclic pull-out push-in shear-lag model for post-installed anchor infill assembly	2014, <i>Arabian Journal for Science & Technology</i> , Vol. 39, No. 12, pp. 8537-8547. DOI: https://doi.org/10.1007/s13369-014-1423-x , Impact Factor: 2.334 ISSN: 2191-4281; E-ISSN: 1319-8025
35	M. Saleem, AU. Qazi, A. Hameed & MA. Bashir	A multi-layer parallel crack extension model for deformational response of post-installed anchor	2013, <i>KSCE Journal of Civil Engineering</i> , Vol. 17, No. 5, pp. 908-920. Impact Factor – 0.359. DOI: https://doi.org/10.1007/s12205-013-0014-9
36	M. Saleem	Non-destructive testing method to evaluate the load carrying capacity of nails	2016, <i>Qassim University Journal of Engineering and Computer Sciences</i> , Vol. 8, No. 1.
37	A. Hameed, M. Saleem, A.U. Qazi, & H. Rizwana	Seismic response evaluation of base isolated buildings	2013, <i>Pakistan Journal of Science</i> , Vol. 65, No. 1, pp. 46-54. ISSN: 0030-9877
38	Z. A. Siddiqi, R. Hameed, M. Saleem, Q. S. Khan & Jawad A. Qazi	Determination of compressive strength and water absorption of styrene butadiene rubber (SBR) later modified concrete	2013, <i>Pakistan Journal of Science</i> , Vol. 65, No. 1, pp. 124-128. ISSN: 0030-9877
39	Z. A. Siddiqi, R. Hameed, M. Saleem, Q. S. Khan & I. Ishaq	Performance study of locally available coarse aggregates of Azad Kashmir	2013, <i>Pakistan Journal of Science</i> , Vol. 65, No. 1, pp. 90-94. ISSN: 0030-9877
40	M. Saleem & T. Tsubaki	Two-Layer model for pull-out behavior of post-installed anchor	2012, <i>Journal of Japanese Society of Civil Engineers, Ser E2 Materials & Concrete Structures</i> , Vol.68, No. 1, Pg. 49-62. Doi: https://doi.org/10.2208/jscejmcs.68.49
41	A. Hameed, M. Saleem, A.U. Qazi, S. Saeed, M. Ilyas & M. Aun Bashir	Mitigation of seismic pounding between adjacent buildings	2012, <i>Pakistan Journal of Science</i> , Vol. 64, No. 4, pp. 326-333. ISSN: 0030-9877
42	A.U. Qazi, M. Saleem, A. Hameed & M. U. Farooq	Response spectra considering recorded ground accelerations in Pakistan	2012, <i>Pakistan Journal of Science</i> , Vol. 64, No. 4, pp. 344-353. ISSN: 0030-9877

Research Papers Presented to Refereed SCIENTIFIC CONFERENCES

#	Name of Investigator(s)	Research Title	Conference and Publication Date
43	M. Saleem	Best Practice in Disaster Management	2019, <i>Saudi Symposium on Crises & Disaster Management, March 14th, Dammam, Saudi Arabia.</i> Organizer: Imam Abdulrahman Bin Faisal University
44	S. D. O. Alshamrani & M. Saleem	Use of unmanned aerial vehicles for surveillance and security of border areas and with-in city	2017, <i>1st International Symposium on Land and Maritime Border Security and Safety, October 15-19, Jeddah, Saudi Arabia.</i> Organizer: General Directorate of Saudi Border Guard, Ministry of Interior, Saudi Arabia Doi: http://www.sbg-symposium.org/Downloads/LMBSS2017_PROC_EN.pdf



45	M. Saleem	Pre-construction durability index for reinforced concrete structure	2014, 3 rd International Conference on Civil Engineering (ICCEN 2014), Mauritius, Asia-Pacific Chemical, Biological & Environmental Engineering Society (APCBEEES), Hong Kong, pp. 70-77, ISSN: 2212-6708, November 29-30, 2014. BEST PAPER AWARD http://www.iccen.org/2012-2014.html
46	T. Tsubaki & M. Saleem	Multi-layer shear lag model for post-installed anchor used in retrofit of concrete structures	8 th International Conference on Fracture Mechanics of Concrete and Concrete Structures (FraMCoS-8), Toledo Spain, AEDIFICATIO, Germany, pp. 443-449, March 10-14, 2013.
47	M. Saleem & T. Tsubaki	Multi-layer model for pull-out behavior of post-installed anchor	7 th International Conference on Fracture Mechanics of Concrete and Concrete Structures (FraMCoS-7), Jeju Korea, AEDIFICATIO, Germany, Vol. II, pp. 823-830, May 23-28, 2010.
48	M. Saleem & T. Tsubaki	Influence of mechanical properties of infilled materials on pull-out behavior of post-installed anchor bar	JSCE 11 th International Summer Symposium, Kansai Japan, Japanese Society of Civil Engineers, Japan, pp. 237-240, September 11th, 2009.
49	T. Tsubaki & M. Saleem	Interface properties for optimum pull-out behavior of steel reinforcement	4 th International Conference on Construction Materials: Performance, Innovations, and Structural Implications, Nogoya Japan, Japanese Society of Civil Engineers, Japan, pp. 191-196, August 24-26, 2009.
50	A. Kafeel, Z. A. Siddiqui, A. Gaffar & M. Saleem	Bond behavior of twisted steel in high-strength concrete	International Conference on Advances in Cement-based Materials and Applications in Civil Infrastructure, Lahore Pakistan, ACBM-ACI, Vol. II, pp. 1011-1022, December 11-14, 2007.

Innovation & U. S. PATENTS

#	Name of Inventor(s)	Research Title	Publisher and Date of Publication
51	M. Saleem	Photoluminescent Phase Change Traffic Signs	United States Patent & Trademark Office, Patent Pending 2023.
52	Abdulrhman Majdi, Mohammed Alqahtani, Abdulmalik Almakytah, M. Saleem	Method For Making a Modular Solar Panel	United States Patent & Trademark Office, Continuous Patent (No.18/048,459) U.S. Patent No. US 11,817,821 B2 and issue date November 14 th , 2023.
53	M. Saleem	Ultrasonic Pulse Method for Testing Steel Rod Reinforced Concrete Beams	United States Patent & Trademark Office, U.S. Pat. No. US 11,796,512 B2 issue date Oct. 24 th , 2023.
54	M. Saleem	Testing Method for Concrete Beam having Steel Reinforcement	United States Patent & Trademark Office, Continuous Patent Application No. 549818US Sep. 26 th , 2023 (Continuation of Case # 548005US) Patent Filed 01-11-2023.
55	M. Saleem	Non-destructive testing method for testing steel-reinforced concrete beam	United States Patent & Trademark Office, Patent Number US 11,686,708, B2 June 27 th 2023.



56	M. Saleem	Method for Evaluating Anchor Bolt Embedment in Concrete https://www.freepatentsonline.com/20220136945.pdf	United States Patent & Trademark Office, Patent Number US 11,662,284, B2 May 30 th 2023.
57	M. Saleem & N. Blaisi	Luminescent Concrete Slurry	United States Patent & Trademark office, Patent Number US 11,661,381, B2 May 30 th 2023.
58	M. Saleem & N. Blaisi	Luminescent Concrete Composites and Products	United States Patent & Trademark Office, Patent Application Pending US-16/151,994, 17/513,223, 18/048,466, 18/121,693 dated 04-19-2023.
59	Mukarram, Z, Arif, A, M. Saleem	Cement Composition Comprising Biochar	United States Patent & Trademark Office, Patent Pending, Application No. 18/339,291 and a filing date of June 22 nd , 2023.
60	Abdulrhman Majdi, Mohammed Alqahtani, Abdulmalik Almakyatah, M. Saleem	Modular Solar Panel Design for Improved Durability and Repairability (BSc Student Co-Inventors)	United States Patent & Trademark Office, U.S. Patent No. US 11,817,821 B2 and issue date November 14 th , 2023.
61	M. Saleem & N. Blaisi	Luminescent Concrete Block	United States Patent & Trademark Office, U.S. Patent No. US 11512027B2.
62	M. Saleem	Non-destructive anchor bolt pullout load capacity testing system https://www.freepatentsonline.com/20210190654.pdf	United States Patent & Trademark Office, Patent Number US 11,293,845, 2022.
63	M. Saleem	Development of Non-Destructive Testing Method to Evaluate Bond Condition of Reinforced Concrete Beam	United States Patent & Trademark Office, US Patent No. 11,536,698, issued December 27, 2022.
64	M. Saleem	Non-destructive apparatus, system, and method for determining the pull-out capacity of friction nails https://www.freepatentsonline.com/10247718.html	United States Patent & Trademark Office, Patent Number US 10,837,870 B2, 2020.
65	M. Saleem	Combined ultrasonic pulse velocity and Schmidt hammer rebound test for nondestructive evaluation Doi: https://patentimages.storage.googleapis.com/a6/12/37/b295dde1c96936/US20190178765A1.pdf	United States Patent & Trademark Office, US Patent No. US 10,969,315, B2, 2021.
66	M. Saleem & N. Blaisi	Luminescent Concrete Composition and Products https://www.freepatentsonline.com/y2020/0109089.html	United States Patent & Trademark Office, U.S. Pub. No. US 2020/0109089.
67	M. Saleem	Non-destructive apparatus, system, and method for determining the pull-out capacity of anchor bolts Doi: https://patentimages.storage.googleapis.com/	United States Patent & Trademark Office, Patent Number 10247718, 2019.



		19/e8/18/0c1b07c68614e1/US10247718.pdf	
68	M. Saleem	Ultrasonic Pulse Velocity Tester Doi: https://patentimages.storage.googleapis.com/05/37/80/f21aaa7a70c0cc/US10386336.pdf	United States Patent & Trademark Office, Patent Number 10386336, 2019.
69	M. Saleem	Concrete Reinforcement Assembly, Method of Installation, and Method to Determine Cyclic Load Response Doi: https://patentimages.storage.googleapis.com/f4/49/cc/02d9995e3d7e47/US9857351.pdf	United States Patent & Trademark Office, Patent Number 9857351, 2018.
70	M. Saleem	Reinforced Brick Masonry Column with polyester Thread Reinforcement Strips Doi: https://patentimages.storage.googleapis.com/6a/7a/fd/490aad2cf7d958/US9797133.pdf	United States Patent & Trademark Office, Patent Number 9797133, 2017.
71	M. Saleem	System, method, and apparatus for providing road separation and traffic safety Doi: https://patentimages.storage.googleapis.com/36/dd/98/f13fca3c25dfea/US9786168.pdf	United States Patent & Trademark Office, Patent Number 9786168, 2017.
72	M. Saleem	Pull-out apparatus and system for testing anchor bolt/bars Doi: https://patentimages.storage.googleapis.com/1c/2a/fb/03b1ce1d19b139/US9726657.pdf	United States Patent & Trademark Office, Patent Number 9726657, 2017.

Published BOOK

#	Author	Title	Publisher
73	<u>M. Saleem</u>	Advancements in Anchor Technology in Civil Engineering: A Guideline for Practicing Engineers	Lap Lambert Publications, Germany, ISBN: 978-3-659-47544-3, EAN: 9783659475443, 2014.
Purchase Link:			
<ul style="list-style-type: none"> https://www.lap-publishing.com/catalog/details//store/gb/book/978-3-659-47544-3/advancements-in-anchor-technology-in-civil-engineering. http://www.amazon.com/Advancements-Anchor-Technology-Civil-Engineering/dp/3659475440 			

Peer Review Services WOS & SCOPUS <https://orcid.org/0000-0001-5194-5483>

▾ Peer review (69 reviews for 24 publications/grants) ☰ Sort
> Review activity for Alexandria Engineering Journal (2)
> Review activity for Applied sciences . (9)



> Review activity for **Arabian journal for science and engineering.** (1)

> Review activity for **Case studies in construction materials.** (1)

> Review activity for **Construction & building materials.** (6)

> Review activity for **Energies.** (13)

> Review activity for **Engineering structures.** (6)

> Review activity for **Frontiers of Structural and Civil Engineering** (2)

> Review activity for **Heliyon.** (1)

> Review activity for **International journal of civil engineering.** (1)

> Review activity for **Journal of adhesion science and technology.** (1)

> Review activity for **Journal of building engineering.** (3)

> Review activity for **Journal of cultural heritage management and sustainable development.** (2)

> Review activity for **Journal of Engineering and Applied Science (Cairo)** (1)

> Review activity for **Journal of transportation engineering.** (1)

> Review activity for **KSCE Journal of Civil Engineering.** (1)

> Review activity for **KSCE Journal of Civil Engineering.** (3)

> Review activity for **Measurement.** (3)

> Review activity for **Processes.** (2)

> Review activity for **Results in engineering.** (1)

> Review activity for **Sensors.** (1)

> Review activity for **Structural concrete.** (3)

> Review activity for **Structures.** (1)

> Review activity for **Sustainability.** (4)

Completed RESEARCH GRANT Projects

#	Name of Investigator(s) (Supported by)	Research Title	Report Date
1	<u>M. Saleem (PI)</u> Aramco Traffic Safety Chair- IAU, SR 0.45 Million	Phase Change Luminescent Composite (PCLC) Traffic Signs for Improved Traffic Safety and Accident Prevention	2023
2	<u>M. Saleem (PI)</u> Aramco Traffic Safety Chair- IAU, SR 0.42 Million	Glow in the Dark Lane Markers for Improve Traffic Safety and Accident Prevention	2023
3	Z. Mukarram, <u>M. Saleem (CoPI)</u> , M. A. Aziz, N. Ashraf, K. S. Alotaibi & Omer Aga	Development and Testing of CO ₂ Concrete Using Recycled Materials	2022
4	<u>M. Saleem (CoPI)</u> , Akira Hosoda, Adnan Akmal, Yokohama National University, Japan, SR 2 Million	Improving Thermal Crack Control System for RC Abutments Using Artificial Neural Network	2021
5	<u>M. Saleem (PI)</u> DSR-IAU, 2021-024-Eng, SR 0.2 Million	Using Artificial Neural Network and Non-destructive Assessment to Estimate the Strength of Epoxy Anchor Bolts	2021
6	<u>M. Saleem (CO-PI)</u> K. A. CARE, RB(b)_IAU_PC, SR 4 Million	Dual Function Solar Panels Racking and Mounting System	2021
7	<u>M. Saleem (CO-PI)</u> K. A. CARE, OT(b)_IAU_PC, SR 3.9 Million	System for peak performance gain from high concentrating photovoltaic	2021
8	<u>M. Saleem (CO-PI)</u> K. A. CARE, OT(c)_IAU_PC, SR 4 Million	Adaptation of Photovoltaic Module for Harsh Desert-Like Environment	2021
9	<u>M. Saleem (CO-PI)</u> K. A. CARE, OT(a)_IAU_PC, SR 3.9 Million	Development and testing of PV module smart cleaning robot capable of harnessing reject heat using shape memory alloy	2021
10	<u>M. Saleem (PI)</u> DSR-IAU, 2020-158-Eng, SR 0.2 Million	Evaluating the bond performance of steel reinforcement embedded in concrete using neural network	2020
11	<u>M. Saleem (PI)</u> DSR-IAU, 2019-112-Eng, SR 0.025 Million	Fundamental Investigation Related to The Development of Repair Methodology for Solar Cells	2020
12	<u>M. Saleem (PI)</u> DSR-IAU, 2019-038-Eng, SR 0.2 Million	Combined use of Ultrasonic Pulse Velocity and the Schmidt Hammer Test to Improve the Accuracy of Non-destructive Pull-out load Carrying Capacity Estimation of Anchor Bolts	2019
13	<u>M. Saleem (PI)</u> DSR-IAU, 2018-078-Eng, SR 0.2 Million	A Fundamental Study to Evaluate the Bond of Reinforced Concrete Beams Using Non-destructive Testing	2018
14	<u>M. Saleem (PI)</u> & Nawaf Blaisi DSR-IAU, 2017-006-Eng, SR 0.2 Million	Development, Testing, and Environmental Impact Assessment of Glow-in-the-Dark Concrete	2017
15	<u>M. Saleem (PI)</u> DSR-IAU, 2016-244-Eng, SR 0.2 Million	Study to Understand the Effects of Varying Embedment Length on Non-Destructive Load Carrying Capacity of Concrete Anchors	2016



16	M. Saleem (PI) , Mostafa Shami, Najjar M DSR-IAU, 2015-166-Eng, SR 0.2 Million	Development of Translucent Concrete Smart Road Separators	2015
17	Sami Osama Al-Khair, M. SALEEM (CO-PI) DSR-IAU, 2014-251-Eng, SR 0.2 Million	Fundamental Study for Development of a Fiber Reinforced Flexible Pavement Material for Sustainable Pavement System	2014
18	Waleed Al-Kutti, M. SALEEM (CO-PI) , Nabeel Al-Akras DSR-IAU, 2014-175-Eng, SR 0.2 Million	Investigating the Behavior of CFRP/Steel Confined Concrete Subjected to Compressive Stress	2014
19	Mahmoud Sodangi, Ahmed Salman & M. SALEEM (CO-PI) DSR-IAU, 2014-124-Eng, SR 0.2 Million	Development of Building Information Modeling (BIM) Implementation Framework for Improving Construction Subcontracting Performance	2014
20	M. Saleem (PI) DSR-IAU, 2014-043-Eng, SR 0.2 Million	Fundamental Study to Develop a Non-Destructive Technique for Evaluating the Load Carrying Capacity of Concrete Anchor	2014

Current Research Projects and INTERNATIONAL COLLABORATIONS

#	Research Title	Name of Investigator(s)
1	Developing a comprehensive model for predicting thermal cracks in large concrete structures using machine learning	M. Saleem (PI) Collaboration project with Yokohama National University, JAPAN – PhD Student Co-Supervision.
2	Macro Energy Management Technique to Lower the Peak Power Supply for Eastern Region of Kingdom of Saudi Arabia.	M. Saleem (PI)
3	Development of a Non-Destructive Testing Method to Estimate the Pull-out Strength of Concrete Anchor Bars and Bolts.	M. Saleem (PI) Collaboration project with Yokohama National University, JAPAN.
4	Development of Glow-in-the-Dark Materials and Devices for Improving Performance and Safety.	M. Saleem (PI) Collaboration project with Yokohama National University, JAPAN.
5	Development of a Non-Destructive Testing Method to Estimate the Soundness of Steel Reinforcement and Concrete.	M. Saleem (PI) Collaboration Project with Florida Institute of Technology, USA.
6	Using Shape Memory Alloys for Improved Plastic Performance of Reinforced Concrete Members.	M. Saleem (PI) Collaboration Project with Florida Institute of Technology, USA.
7	Adopting Shape Memory Alloys for Structural Health Monitoring In Combination with Non-destructive Testing to Evaluate the Performance of Infrastructure Projects.	M. Saleem (PI) Collaboration Project with Florida Institute of Technology, USA.
8	Development of a Non-Destructive Testing Method to Estimate the Pull-out Strength of Epoxy Installed Anchor Bars and Bolts Embedded in Rocks.	M. Saleem (PI) Collaboration project with Yokohama National University, JAPAN.
9	Dual Functioning Solar Mounting and Racking System to Optimize Efficiency in addition to Structural Loading	M. Saleem (Co-PI) Collaboration project with HeatSpring LLC, USA, and GCC labs, KSA.



10	Innovative Design and Development of System for peak performance gain from high concentrating photovoltaic	M. Saleem (Co-PI) Collaboration project with Exeter University, UK, and BSQ Solar, Spain.
11	Innovative Design and Development for Adaptation of Photovoltaic Module for Harsh Desert-Like Environment	M. Saleem (Co-PI) Collaboration project with Shinsung, S., Korea and GCC labs, KSA.
12	Innovative Solar-Powered Actuation Mechanism for Smart-Cleaning of Dust Accumulation for PV Panels Using the Integration of Shape Memory Alloy-Based Micro-Actuators	M. Saleem (Co-PI) Collaboration project with IAU, KSA, and GCC labs, KSA.

Membership of SCIENTIFIC and PROFESSIONAL SOCIETIES and Organizations

- Professional Approved Consulting Engineer, Pakistan Engineering Council (PEC)
- Member, Pakistan Institute of Engineers (PIE)
- Member Japanese Society of Civil Engineers (JSCE)
- Member Asian Council of Science Editors (ACSE)
- **International Reviewer** for the **Fib Structural Concrete**, WILEY Publications, 2020-Till date.
- **International Reviewer** for the **Journal of Building Engineering**, ELSEVIER Publications, 2019-Till date.
- **International Reviewer** for the **Engineering Structures**, ELSEVIER Publications, 2018-Till date.
- **International Reviewer** for the **International Journal Structures**, ELSEVIER Publications, 2018-Till date.
- **International Reviewer** for **International Journal of Civil Engineering**, SPRINGER NATURE, 2018-Till date.
- **International Reviewer** for the **Ain Shams Engineering Journal**, ELSEVIER Publications, 2018-Till date.
- **International Reviewer** for the American Society of Civil Engineers' **Journal of Construction Engineering and Management**, 2018-Till date.
- **International Reviewer** for the **Journal of Engineering Research (JER)** By Kuwait University Publication Council/Faculty of Engineering, 2019-Till date.
- **Member Editorial Board** for the **International Journal of Non-Destructive Testing and Evaluation (NDT&E)**, 2020-Till date.
- **Member Review Board** for Promotion Committee for Taibah University, Madinah Munawarah, KSA, 2019.
- **Member Review Board** for Deanship of Scientific Research Project Proposal Review Committee for Taibah University, Madinah Munawarah, KSA, 2018.
- **Member Review Board** for Deanship of Scientific Research Project Proposal Review Committee for Imam Abdulrahman Bin Faisal University, KSA, 2020.
- **International Editorial Board Member and Reviewer** for Civil Engineering and Architecture, Horizon Research Publications USA, 2014-Till Date.



http://www.hrpub.org/journals/jour_editorialboard.php?id=48

- **International Editorial Board Member** for International Journal of Structural Engineering and Analysis, Research India Publications, 2014-Till Date.

<http://civil.journalspub.info/index.php?journal=JSEA&page=about&op=editorialTeam>

- **International Editorial Board Member** for International Journal of Concrete Technology, Research India Publications, 2014-Till Date.

<http://civil.journalspub.info/index.php?journal=IJCT&page=about&op=editorialTeam>

- **International Editorial Board Member** for Journal of Civil and Structural Engineering, Integrated Publication Association USA, 2014-Till Date.

<http://www.ipublishing.co.in/editorialboard.html>

TEACHING Activities

UNDERGRADUATE COURSES TAUGHT

#	Course/Rotation Title	No./Code	Extent of Contribution
1	Statics	ENG232	IAU - Main Instructor
2	Dynamics	ENG311	IAU - Main Instructor
3	Engineering Materials	ENG332	IAU - Main Instructor
4	Strength of Materials	ENG351	IAU - Main Instructor
5	Technical Writing	ENG401	IAU - Main Instructor
6	Machine Design	ENRG410	IAU - Main Instructor
7	Project Management and Scheduling	ENRG505	IAU - Main Instructor
8	Directed Research	ENRG565	IAU - Main Instructor
9	Senior Design Project I & II	ENRG503 & 509	IAU - Main Instructor
10	Energy Efficiency and Sustainable Development	ENRG502	IAU - Main Instructor
11	Plain & Reinforced Concrete Technology I-II	PRC I & II	UET Lahore - Main Instructor
12	Structural Engineering	Str. Engg.	UET Lahore - Main Instructor
13	Transportation Engineering	Transp. Engg.	UET Lahore - Main Instructor
14	Surveying Lab	Sur. Lab	UET Lahore - Lab Instructor
15	Computer Programming	Comp.	UET Lahore - Main Instructor



MASTER COURSES TAUGHT

#	Course/Rotation Title	No./Code	Extent of Contribution
Master in construction management			
1	Construction Safety Management	CONEN 616	Main Instructor
2	Construction Productivity and Quality Management	CONEN 614	Main Instructor
3	Advanced Engineering Economics	CONEN 605	Main Instructor
4	Construction Procurement and Contract Administration	CONEN 602	Main -Instructor
5	Methods and Equipment for Construction	CONEN 613	Main -Instructor
Master in civil engineering			
6	Seismic Retrofitting & Design of Reinforced Concrete Structures	MSc-Str-119	Co-Instructor
7	Earthquake Engineering	MSc-Str-217	Co-Instructor
8	Fracture Mechanics	MSc-Str-288	Co-Instructor
9	Advanced Theory of Concrete Structures	MSc-Str-274	Co-Instructor

Student Academic SUPERVISION of BSC THESIS

#	Level	Number of Students	From	to
1	Macro Energy Management Technique to Lower the Peak Power Supply for the Eastern Region of the Kingdom of Saudi Arabia	03	2020	2021
2	Use of Shape Memory Alloys for Performance Improvements in Civil Structures	03	2020	2021
3	Fundamental Investigation Related to the Development of Repair Methodology for Solar Cells	03	2019	2020
4	Development, Training, and Validation of Artificial Neural Network for crack prediction in Reinforced Concrete.	01	2019	2020
5	Fundamental Study to Detect Degradation in Steel-Concrete Bond under Increasing Loading Using Ultrasonic Pulse Velocity Test	01	2016	2017
6	Fundamental Study to Evaluate Bond Performance for Concrete Anchors Using Ultrasonic Pulse Velocity Test	02	2015	2016
7	Development of Smart Road System for Increased Traffic Safety	03	2015	2016



8	Fundamental Study to Develop Non-destructive Pull-out Capacity Evaluation Method for Concrete Anchors	02	2014	2015
9	Development of Translucent Concrete in Pakistan	04	2012	2013
10	Fundamental Study Regarding the Use of Energy Dissipation Devices for Seismic Design in Pakistan	04	2011	2012

NOTE: Student groups have published their research works in Q1 and Q2 journals with US Patents granted for three projects

Student Academic SUPERVISION of MASTER'S THESIS

#	Degree Type	Title	Institution	Date
11	MSc in Civil Engineering, Department of Civil Engineering, Yokohama National University, Japan	Engr. Adnan Akmal, Parametric Sensitivity Analysis of JCI Formula for Thermal Crack Prediction, Yokohama National University, JAPAN. Co-Supervision with Prof. Akira Hosoda.	Yokohama National University Japan	2021
12	Master of Building Science, Department of Building Engineering, College of Architecture and Planning	Zaher Zaher Soliman Mohammed, ID: 2170500137, Complexity Rate Assessment Modeling for Housing Projects in Saudi Arabia Supervised by Dr. Muhammad SALEEM	IAU, KSA	2019
13	Master of Building Science, Department of Building Engineering, College of Architecture and Planning	Ibrahim Khalil AlYousif, ID: 2150500004, Contractors Selection Framework for The Government Projects in KSA. Supervised by Dr. Muhammad SALEEM	IAU, KSA	2019
14	Master of Structural Engineering, Department of Civil Engineering	Akif, M., Shake Table Evaluation of Low-Cost Strengthening Technique for Unreinforced Brick Masonry Columns. Supervised by Dr. Muhammad SALEEM	UET Lahore Pakistan	2013
15	Master of Structural Engineering, Department of Civil Engineering	Ahad, J., Development of Seismic Retrofitting techniques for RC structures using low-cost materials. Supervised by Dr. Muhammad SALEEM	UET Lahore Pakistan	2013
16	Master of Structural Engineering, Department of Civil Engineering	Umair, M. Numerical evaluation of failure mechanism & infill material properties of the multi-layer anchor-infill assembly. Supervised by Dr. Muhammad SALEEM	UET Lahore Pakistan	2014
17	Master of Structural Engineering, Department of Civil Engineering	Waqar, A. Testing of Scaled Masonry Model Developed Using Similitude Rules. Supervised by Dr. Muhammad SALEEM	UET Lahore Pakistan	2013

NOTE: All student groups have published their research works in Q1 and Q2 journals



Student Academic SUPERVISION of Ph.D. THESIS

#	Degree Type	Title	Institution	Date
18	PhD	A study to control thermal cracking of RC abutments using Machine Learning , Co-Supervision of Engr. Adnan Akmal at the Department of Civil Engineering, Yokohama National University, Japan by Prof. Akira Hosoda and Dr. Muhammad SALEEM . <i>Fully Funded Scholar by Japanese Government (MEXT) 2020-2025.</i>	Yokohama National University (YNU), JAPAN	2021

MENTORSHIP of Academic Faculty Members

#	Degree Type	Title	Institution	Date
19	UKPSF Fellowship	Mentoring of Dr. Nasir Ghazi Hariri, Assistant Professor, College of Engineering, Imam Abdulrahman Bin Faisal University, KSA for UK Professional Standards Framework FELLOWSHIP by Dr. Muhammad SALEEM	IAU, KSA	2021

ENTREPRENEURSHIP – Research-Based Startups

#	Name of Startup	Title	Institution	Date
20	GiDCRETE	Co-Inventor and Patent Owner for the Glow-in-the-dark Concrete Products for Esthetical and Safety Applications by Dr. Muhammad SALEEM	IAU, KSA	2021
21	RoadBuildSAFE	Co-Inventor and Patent Owner for the Concrete Based Safety Products for Road Applications and autonomous cleaning solutions for building and solar panels by Dr. Nasir Ghazi Hariri and Dr. Muhammad SALEEM	IAU, KSA	2021
22	SmartClean	Co-Inventor of smart cleaning technology products for self-cleaning solutions from the Solar industry to architecture applications by Dr. Nasir Ghazi Hariri and Dr. Muhammad SALEEM	IAU, KSA	2021

Professional Engineering CONSULTANCY

#	Degree Type	Title	Institution	Date
23	Professional Engineering Consultancy	HEAD of Non-destructive and Materials Testing at the University Center for Research and Engineering Consultancy.	IAU, KSA	2019-till date



		The consultancy is involved in Govt. and private projects and has completed 02 commercial projects.		
24	Professional Engineering Consultancy	Deputy Director of Materials Testing, Site Investigation, NDT, Quality Assurance, and Earthquake Engineering Center at the Department of Civil Engineering, University of Engineering and Technology, Lahore Pakistan. The consultancy is involved in Govt. and private projects and has completed 30 commercial projects.	UET, Lhr, Pakistan	2006-2008, 2011-2013

Administrative Responsibilities, Committee and Community Service

Academic QUALITY and Institutional ACCREDITATION (ABET & NCAAA)

#	Degree Type	Title	Institution	Date
25	Academic QUALITY and Institutional ACCREDITATION	Chairman of Academic Quality Assurance and Accreditation Committee at the College of Engineering, IAU. Development of SSR, Coordination, Course Portfolio Assessment and Archiving, Exam Evaluation, PEV Schedule development etc.	IAU, KSA	2019-till date

College STRATEGIC PLANNING and Implementation

#	Degree Type	Title	Institution	Date
26	College STRATEGIC PLANNING	Chairman of Strategic Plan Development and Implementation Unit at the College of Engineering, IAU.	IAU, KSA	2014-till date

Administrative Responsibilities

#	From	To	Position	Organization
1	2016	Till Date	Safety and Security Committee	IAU, KSA
2	2020	Till Date	Student Placement and Summer Training Committee	IAU, KSA
3	2021	Till Date	Advisory Board Mechanical and Energy Engineering	IAU, KSA
4	2014	Till Date	Website CoE	IAU, KSA
5	2014	2018	Hiring and Shortlisting of Candidates Unit	IAU, KSA
6	2014	2018	ABET Technical Review Committee, Self-Assessment, and Self-Study Report Development	IAU, KSA
7	2014	2018	Quality Assurance Committee	IAU, KSA



	2018	Till Date		
8	2011	2013	Ph.D. Thesis Evaluation Committee	UET, Lhr
9	2006	2008	Deputy Director Test Floor Laboratory	UET, Lhr
10	2011	2013	Deputy Director Strength of Materials Laboratory	UET, Lhr
11	2011	2013	Deputy Director Concrete Testing Laboratory	UET, Lhr

COMMITTEE Membership

#	From	To	Position	Organization
1	2014	Till Date	Chairman for Strategic Plan Development for CoE IAU and Risk Management Committee	IAU, KSA
2	2016	Till Date	Community Service & Sustainable Development Committee	IAU, KSA
3	2016	Till Date	Committee for Program Initiation & Lab Development	IAU, KSA
4	2018	Till Date	Consultant Academic Program review and development committee at the Vice President Office IAU	IAU, KSA
5	2016	Till Date	Committee for Website Development	IAU, KSA
6	2020	Till Date	Student Placement and Summer Training Committee	IAU, KSA
7	2016	Till Date	Committee for Safety and Security	IAU, KSA
8	2018	Till Date	FABHOUSE Prototyping and Management Committee	IAU, KSA
9	2014	2018	Quality, ABET Accreditation Technical Committee	IAU, KSA
10	2015	2018	Member of the Strategic Plan Development Committee	IAU, KSA
11	2011	2013	External Examiner for Government of Punjab Public Service Commission Exam	Govt. of Punjab, Pakistan
12	2006	2008	Masters Exam Review Committee	UET, Lahore
13	2011	2013	Ph.D. Thesis Evaluation and Review Committee	UET, Lahore
14	2011	2013	Masters Thesis Evaluation and Review Committee	UET, Lahore
15	2011	2013	Quality Assurance Testing and Reporting Unit	UET, Lahore

VOLUNTEER Work

#	From	To	Type of Volunteer	Organization
1	2016	Till Date	مشروع الاحسان لبيوت الرحمن	IAU, KSA
2	2017	2018	Development of Solid Waste Reduction Management Plan for College of Engineering, IAU.	IAU, KSA



3	2017	2018	Development of Management Action Plan for Reduction of PET bottle waste in College of Engineering, IAU.	IAU, KSA
4	2013	Till Date	All the functions of CoE & UoD	IAU, KSA
5	2014	Till Date	Quality of Life Assurance UoD housing No. 9	IAU, KSA
6	2008	Till Date	Mentoring and Tutoring underprivileged students for Academic Scholarships , entrance exams, etc.	IAU, KSA UET, Lhr, Pakistan
7	2011	Till Date	Financial Support for underprivileged students for Academic Tutoring and higher education exams etc.	Lhr, Pakistan

AWARDS & Appreciation

#	Description	Year
1	GOLD MEDAL WINNER of the Best Teacher Award at the College of Engineering, IAU.	2022-23
2	SECOND PLACE MEDAL WINNER of the Best Innovation Award at the College of Engineering, IAU.	2022-23
3	GOLD MEDAL WINNER of the Best Community Service Award at the College of Engineering, IAU.	2022-23
4	Excellence Contribution to Excellence in Learning & Teaching by HE Vice President Prof. Dr. Gazi Al-Otaibi, IAU.	2021
5	WINNER of the Best Innovation Award at the College of Engineering, IAU.	2021
6	Highest Commercial US Patent in Imam Abdulrahman Bin Faisal University	2021
7	Included in Who is Who of Concrete Materials Research Forum of USA.	2021
8	Winner of Student Publication Reward for Undergraduate Thesis Publication in Q1 WOS Journal by Deanship of Scientific Research at Imam Abdulrahman Bin Faisal University	2021
9	WINNER of FIRST PRIZE in Engineering (US\$ 10,000) at the Traffic Safety Summit	2020
10	Finalist on MONSHAAT – EBTKER ENGINEERING AWARD	2019
11	BEST PERFORMANCE Award	2018/2019
12	FIRST PLACE in Innovation Award	2018/2019
13	BEST Performance and Contribution to ACADEMIC PROGRAM DEVELOPMENT	2017/2018
14	FIRST Place in COMMUNITY SERVICE AWARD – Tarwiyah Project	2017/2018
15	FIRST PLACE with Outstanding RESEARCH Award	2017/2018
16	Outstanding INNOVATION Award	2017/2018
17	FIRST PLACE in COMMUNITY SERVICE Award – Mosque Renovation	2016/2017
18	Best Performance in ABET ACCREDITATION TECHNICAL COMMITTEE	2016/2017
19	Chairman of ACADEMIC QUALITY ASSURANCE UNIT	2016/2017
20	Chairman of SAFETY & SECURITY Committee	2016/2017



21	FIRST PLACE with Outstanding RESEARCH Award	2015/2016
22	THIRD PLACE with Outstanding RESEARCH Award	2014/2015
23	Best TEACHER Award	2014/2015
24	Best PERFORMANCE Award	2014/2015
25	Chairman of WEBSITE DEVELOPMENT UNIT	2014-2018
26	BEST PAPER AWARD at International Conference on Civil Engineering - ICCEN, Mauritius	2014
27	Winner of Engineering Management Program at Yokohama National University, Japan	2009/2010
28	First in Class in Masters	2007/2008
29	Topper in Batch in 1 st and 8 th Semester of BSc Civil Engineering at UET Lahore	2002-2006

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

1	AutoCAD, Eagle Point, Finite Element Structural Analysis Staad Pro 2000, SAP 2000, PRIMAVERA Project Planning, ATENA, E-TABS, Quick Basic, Visual Basic, Microsoft Office, MS Project.
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Engineering Consultancy Experience

Short Summary of KEY PROJECTS

Project No. 1:

On-site Investigation, Field Visit – Government & Private Projects (**Over 30 Projects**)

Main Duties:

- Non-Destructive Testing
- Material Quality Assurance
- Materials Strength Testing
- Design Evaluation
- NDT&E of a multistory plaza in Khobar, KSA (SR 30 Mil)

Project No. 2:

Kashmir Centre Lahore, Pakistan. An Eleven Story High-rise Building

Main Duties:

- Liaison between the Client and Contractor
- Close monitoring of measurements of completed works & Contractor Bill Evaluation
- Recommending Intermediate and Final payments
- Progress Evaluation & Monitoring
- Technical Supervision
- Procurement Management & monitoring cost control of the Projects
- Quality Assurance of work & Issuance of Completion Certificates



Project No. 3:

Five-Story Extension of Auditor General Building PIFRA-II Islamabad Pakistan – WORLD BANK FUNDED PROJECT

Main Duties:

- Technical Supervision & Project Management
- Communication between Client and Contractor
- Preparation of CPM-Based Construction Schedule.
- Preparation of Progress Reports & detailed analysis of the progress situation
- Procurement schedule evaluation & improvement measures
- Cost Control & Quality Evaluation
- Preparation of Tender document
- Preparation of Bid Evaluation Report
- Preparation of Technical Specification

Project No. 4:

Labone World Headquarters in Johar Town Lahore, Pakistan

Main Duties:

- Complete Turnkey Project Supervision/Management

Project No. 5:

Green View Housing Society, Lahore, Pakistan

Main Duties:

- Technical Supervision of Survey and Execution of Natural Drain relocation
- Liaison between the Client and Contractor



Project No. 6:

Schools, Terminal Buildings, and Plaza in Azad Jammu and Kashmir, Pakistan.

Main Duties:

- Technical Supervision & Project Management
- Structural Design of Buildings
- Preparation of Construction Schedules
- Preparation of Engineer's Cost Estimate
- Cost Control & Quality Evaluation
- Preparation of Technical Specification
- Overall responsibility of supervision as per contract on behalf of the Consultants

Project No. 7:

Defense Housing Authority Lahore Phase VIII & Phase VII – Infrastructural Design & Design Evaluation, 2011-2013

Main Duties:

- Technical Supervision & Project Management
- Structural Design of Buildings
- Road Network Design
- Surface Drain Design
- Technical Evaluation & Line of Action Development
- Design Evaluation of Sewerage System & Corrections

Project No. 8:

Housing Design and Construction (10+ Project)

Main Duties:

Complete Turnkey Project Supervision/Management



DATA ON RECOMMENDERS

RECOMMENDER NO. 1:

Prof. Dr. Akira Hosoda

Chairman

Professor

Department of Civil Engineering, Yokohama National University, Yokohama, Japan

Address: 79-5, Tokiwadai, Hodogaya-ku, Yokohama-shi, Kanagawa 240-8501, Japan

Email: concrete@ynu.ac.jp

Phone No.: 0081-90-85156757

Fax No.: 0081-45-331-1707

RECOMMENDER NO. 2:

Prof. Dr. Hector Martin Gutierrez

Professor

Address: Department of Mechanical and Civil Engineering, Florida Institute of Technology, 150 West University Boulevard, Melbourne, FL 32901, United States of America

Email: hgutier@fit.edu

Phone No. Office: (321) 674-7321

Phone No. Home: (321) 409-9576

RECOMMENDER NO. 3:

Prof. Dr. Tatsuya Tsubaki

Professor

Department of Civil Engineering, Yokohama National University, Yokohama, Japan

Address: 79-5, Tokiwadai, Hodogaya-ku, Yokohama-shi, Kanagawa 240-8501, Japan

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