

CURRICULUM VITAE

Name : Hisham Yousef Qasrawi
Date of Birth: December, 25th, 1956
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Academic Qualifications:

1. **DIC** in Concrete Structures, 1985, **Imperial College** of Science and Technology University of London, Britain.
2. **MSc.** in Concrete Structures, 1985, **Imperial College** of Science and Technology, University of London, Britain.
3. **B.Sc.** in Civil Engineering, 1979, **Alexandria University**, Alexandria, Egypt with very good with the degree of honors.
4. **Secondary School:** Ranked the **2nd.** in the General Certificate Examination held all over the West Bank of Jordan in 1974, with an average of 95.5 %.

Personal Experience:

1. 2000 - present: Senior Lecturer, The Hashemite University Zarqa, Jordan.
2. September 1994 - September 2000: Senior Lecturer, Applied Science University, Amman, Jordan.
3. May 94 - September 94: Project Manager, PLANS, Amman, Jordan.
4. July 93 - May 94: Head of Structural Design Department, PLANS, Amman, Jordan.
5. 1991-1993: Quality Control and Material Engineer, Sigma, Jordan.
6. October 85 - August 90: Civil Engineering Dept., College of Engineering and Petroleum, Kuwait University.
7. March 80 - September 84: Lab. Engineer, Civil Engineering Dept., Kuwait University.

DIC & MSc Theses:

The theses entitled "*Biodeterioration of Concrete, Steel and Oil by Bacteria*" supervised by Dr. P. Sullivan.

Prizes and Awards

1. Second prize in of "Urban Development and Building Problems in Desert Reigns" with the paper: **Design of Concrete Mixes in Hot Weather for Minimum Cost.** Saudi Arabia 2002.
2. First prize in the Association of Engineers, Jordan for undergraduate projects in 2000. The project entitled: **Deterioration and Rehabilitation of Concrete Structures in Jordan.**
3. First prize in the Association of Engineers, Jordan for undergraduate projects in 2005. The project entitled: **Construction Errors in local sites: Causes, effects and remedial measures.**
4. First prize in the Association of Engineers, Jordan for undergraduate projects in 2006. The project entitled: **Software for the Diagnosis of Concrete Cracks.**
5. Academic excellence prize from Hashemite University in 2006.
6. Second prize in the Association of Engineers, Jordan for undergraduate projects in 2009. The project entitled: **Construction Errors and Their Impact on the Construction Economy**".
7. Nomination for El Hassan bin Talal Award for Scientific Excellence in 2012. The research Entitled "Use of **Steel Slag Aggregate in Engineering Projects**".

Scholarships:

Full scholarship to study MSc. and DIC at Imperial College as a full time student granted by the Arab British Chamber Charitable Foundation, after a competition among many of the Arab World candidates.

Teaching Experience:

a. Subjects

No	Subject	Level (Year)	Notes	Place
1	Graduation Design Projects in: a. Reinforced Concrete b. Concrete Materials c. Steel Structures d. Bridges	5 th . year		
2	Plastic Analysis and Design of Steel Structures	5 th . year	Elective course,	ASU*
3	Steel Bridges	5 th . year	Elective course	ASU*
4	Deterioration and Rehabilitation of Concrete Structures	5 th . year	Elective course	
5	Advanced Concrete Technology	5 th . year	Elective course	ASU*
6	Building Construction	4 th . year	Elective course	
6	Steel Structures (Steel Design II)	4 th . year	Elective course	
	Steel Structures (Steel Design I)	4 th . year		
7	Steel Structures for Architectural Engineering	4 th . Year		
8	Reinforced Concrete	4 th . year		
9	Structural Mechanics	2 nd & 3 rd year		
10	Structural Analysis I	3 rd . year		
11	Strength of Material	2 nd . year		
12	Building Materials	2 nd . year		
13	Statics	2 nd . year		
14	Descriptive Geometry	1 st . year		
15	Engineering Drawing (Visual Communication)	1 st . year		

* Applied Science University

b. Practical Subjects

1. Building (Construction) Materials.
2. Soil Mechanics.
3. Strength of Materials.
4. Highway Engineering.
5. Engineering Drawing.
6. Descriptive Geometry.

Special Committees:

1. Member in the Higher Permanent Structural Committee, Ministry of Public Works and Housing, Jordan
2. Member of the scientific committee RILEM TC-ISC-249, In-situ strength assessment of concrete, Guidelines. The guidelines are under preparation.
3. Member in the committee for specifying and qualifying engineers, JEA, Jordan
4. Senior Member in the Association of Engineers of the Hashemite Kingdom of Jordan. Title: Consultant.
5. Member in International Association for Concrete Technology (IACT) – Jordan Chapter.
6. Head of “Developing Structural Committee”, Association of Engineers of the Hashemite Kingdom of Jordan, *Head of the committee 2006 -2009.* (رئيس لجنة تطوير العمل الإنشائي – نقابة المهندسين)
7. Member “Cement Factory Protocol”, Association of Engineers of the Hashemite Kingdom of Jordan. (عضو بروتوكول مصانع الإسمنت - نقابة المهندسين).
8. Member in the committee which studied “Steel structures failures due to snow in 2003–2004”, Ministry of Public Works and Housing, Jordan.
9. Member in the comitte studying the use of GGBFS in Jordan.
10. Member in the organizing committee for the 5th Jordanian International Civil Engineering Conference, JEA, Jordan, 17-19 January, 2012
11. Member in the committee for evaluating and classifying engineers, Jordan Engineering Association.

(In progress).

12. Member in “The Permanent Structural Committee”, Ministry of Public Works, Jordan

Special Courses and workshops (attendance):

1. A 5-day workshop in “*Prestressed Concrete*”, KISR, Kuwait, 1982.
2. A course on “*Module on Concrete for Imperial College Students*”, C & CA, London, 1985.
3. A 3-day workshop in “*Earthquake Engineering*”, RSS, Jordan, 1997.
4. A 3-day workshop in “*Preparing Textbooks for the Vocational Training Institute*”, Vocational Training Institute, Jordan, 1998.
5. A 3-day workshop in “*Industrial Property and Technology Transfer in Arab Countries*”, The Higher Council for Science and Technology, Jordan, 1999.
6. A one-day workshop in “*Formwork Design*”, Association of Engineers, Jordan, 2002.
7. A one-day workshop in “*Sport Structures*”, Association of Engineers, Jordan, October 2003.
8. A one-day workshop in “*Earthquake Resisting Structures*”, Ministry of public Works and housing, Jordan, October, 2003.
9. A one-day workshop in “*Thermal and Damp Insulation Materials and Techniques*”, Association of Engineers, Jordan, October 2003.
10. A seminar on “*Strengthening Historical and Modern Structures by the Use of Steel*”, JUST, Jordan, December, 2009.
11. A one-day seminar on “*The Development of First Performance Based Green Building Systems in the Middle East “QASAS”*”, JEA, July, 2011.
12. A one-day seminar on “*Principles of Construction Materials and Solutions Choice*”, JEA, October 2011.
13. ACI Concrete Conference on Materials and Design, ACI, Aoyal Scientific Society, Amman, Jordan, November 2019.

Special Lectures and Short Training Course (Trainer):

1. Design of concrete mixes.
2. Design of reinforced concrete buildings.
3. Preparing and Qualifying Project Engineers.
4. Quality Control of Concrete.
5. Concrete Defects: Causes, Evaluation and Repair.
6. Site Inspection and Management.
7. Cement testing and evaluation.

Referee (International Journals)

Refereed articles for

1. ACI Materials Journal.
2. ACI Structural Journal.
3. ASCE Journal of Materials in Civil Engineering.
4. Construction and Building Materials.
5. Construction Materials, ICE, UK.
6. Cement and Concrete Research.
7. Structural Engineering and Mechanics.
8. Environment, Development and Sustainability.
9. International Journal of Railway Technology.
10. International Journal of Materials and Product Technology (IJMPT).
11. KSCE Journal of Civil Engineering, an international journal.
12. SN Applied Sciences, an international journal, Springer.
13. International Journal of Concrete Structures and Materials, Springer.

Publications:

Codes and Specifications

Participated in the preparation of the following codes and specifications:

1. Guide for Reinforcement Detailing. Jordan Engineering Association, 2015.
2. Jordanian specifications for civil and architectural works, Ministry of Public Works and Housing, Jordan, under preparation. Reviewing Committee.
3. Jordanian Code for Steel Structures – LRFD, Ministry of Public Works and Housing, Jordan., 2012 Preparation.
4. Jordanian Code for Water Tanks, under preparation, Ministry of Public Works and Housing, Jordan, under preparation. Reviewing Committee.
5. Jordanian Code for Structural Concrete, Ministry of Public Works and Housing, Jordan, 2008. Reviewing Committee.
6. Jordanian Code for Loads and Effects, Ministry of Public Works and Housing, Jordan, 2006. Reviewing Committee.
7. General Specifications for Building and Engineering Works", Ministry of Public Works, Kuwait, 1990. Joint author.

Scientific Papers

Refereed Journals

1. **Hisham Qasrawi**, "Hardened Properties of Green Self-Consolidating Concrete Made with Steel Slag Coarse Aggregates under Hot Conditions", Volume 117, No. 1, pp 107-118, 2020.
2. Reshma Rughooputh, Rahul Beeharry and **Hisham Qasrawi**, "Warm mix asphalt for better sustainability under tropical climate", International Journal of Pavement Engineering, Volume 21, No. 1, pp 1-8, 2020.
3. **Hisham Qasrawi**, "Effect of The Position of Core on the Strength of Concrete of Columns in Existing Structures", Journal of Building Engineering, Volume 25, 100812, September 2019.
4. Denys Breysse, Jean-Paul Balayssac, Samuele Biondi et al; **Hisham Qasrawi** et al , "Recommendation of RILEM TC249-ISC on Non Destructive In-situ Strength Assessment of Concrete", Materials and Structures, Volume 52, No. 71, August 2019.
5. **Hisham Qasrawi**, "Fresh Properties of Green SCC Made with Recycled Steel Slag Coarse Aggregate under Normal and Hot Weather", Journal of Cleaner Production, Vol. 204, 2018. , pp 980-991.
6. **Hisham Qasrawi**, "Optimal Method for Teaching Concrete Technology for Civil Engineering Students", MOJ Civil Engineering, Volume 4, Issue 4, 2018, pp 225-235.
7. **Hisham Qasrawi**, "Towards Sustainable Self Compacting Concrete: Effect of Recycled Slag Coarse Aggregate on the Fresh Properties of SCC", Advances in Civil Engineering, Volume 2018, Article ID 7450943, 9pp, 2018.
8. Faisal Shalabi, Ibrahim Asi, **Hisham Qasrawi**, "Effect of by-product Steel Slag on the Engineering Properties of Clay Soils", Journal of King Saud University, Engineering Sciences, 29, 2017, pp 394-399.
9. **Hisham Qasrawi**, "Design of Normal Concrete Mixtures Using Workability-Dispersion-Cohesion Method", Advances in Civil Engineering Vol. 2016, pp11, 2016.
10. **Hisham Qasrawi** and Ibrahim Asi, "Effect of bitumen grade on hot asphalt mixes properties prepared using recycled coarse concrete aggregate", Construction and Building Materials, Vol 121, pp 18-24, 2016.
11. **Hisham Qasrawi**, "The Use of Steel Slag to Enhance the Mechanical Properties of Recycled Aggregate Concrete and Retain the Environment" Construction and Building Materials , 54, 2014, pp 298-304.
12. **Hisham Qasrawi** and Iqbal Marie, "Towards Better Understanding of Concrete Containing Recycled Concrete Aggregate", Advances in Materials Science and Engineering, Volume 2013, Article ID 636034, October, 8pp, 2013
13. Iqbal Marie and **Hisham Qasrawi**, "Closed-loop recycling of recycled concrete aggregates", Journal of Cleaner Production, Elsevier, Vol 37 , pp 243-248, 2012.,
14. **Hisham Qasrawi**, "Use of Relatively high Fe₂O₃ Slag in Concrete as Coarse Aggregate", ACI Materials Journal, ACI, USA, Vol 109, July/August 2012, pp 471-478.

15. **Hisham Qasrawi**, Faisal Shalabi and Ibrahim Asi, "Use of Low CaO Unprocessed Steel Slag in concrete as Fine Aggregate", *Journal of Construction and Building Materials*, Volume 23, Issue 2, February 2009, pp 1118–1125.
16. Ibrahim Asi, **Hisham Qasrawi**, Faisal Shalabi, "Use of Steel Slag Aggregate in Asphalt Concrete", *Canadian Journal of Civil Engineering*, 34, 2007, pp 902-911.
17. Iqbal Marie and **Hisham Qasrawi** "Virtual Assembly of Pottery Fragments Using Moire Surface Profile Measurements", *Journal of Archaeological Science*, 32, 2005, pp 1527 – 1533
18. **Hisham Y. Qasrawi**, Ibrahim M. Asi and H. I. Al-Abdul Wahhab, "RCCP Mix Proportioning in Hot Weather for a Specified Tensile Strength", *Cement and Concrete Research* Vol 35, No. 2, 2005, pp 267 – 276.
19. Samir Al-Sadder and **Hisham Y. Qasrawi**, "Exact Stiffness Matrix for Nonprismatic Beam-Columns with Elastic Semirigid Joint Connections", *Emirates Journal for Engineering Research*, 9, (2), 2004, 127-135.
20. **Hisham Qasrawi**, "Design of Concrete Mixes in Hot Weather for Minimum Cost", *Building Technology*, Vol.1., No. 2,2003, pp 73 – 79.*
21. **Hisham Qasrawi** and Iqbal Marie, "The Use of USPV to Anticipate Failure in Concrete under Compression", *Cement and Concrete Research*, 33, 12, December 2003, pp 2017-2021.
22. **Hisham Qasrawi**, "Reply to the discussion by E. Arioglu, E. Arioglu and C. Girgin of the paper – Concrete strength by combined nondestructive methods: simply and reliably predicted", *Cement and Concrete Research*, 31, 2001, pp 1239-1241.
23. **Hisham Qasrawi**, "Concrete Strength by Combined Nondestructive Methods: Simply and Reliably Predicted", *Cement and Concrete Research*, Vol. 30, 2000, pp 739-746.
24. **Hisham Qasrawi**, "Concrete Compaction in Jordan: Problems and Solutions", *J. J. of Applied Science*, Vol. 2 (4), 2000, pp 1-21.
25. **Hisham Qasrawi** and P. Kattan, "Minimum Reinforcement Ratio in the Jordanian Code: Applicability and Comparisons", *J. J. of Applied Science*, Vol. 1 (2), 1999, pp 33-45.
26. P. Kattan and **H. Qasrawi**, "Developments in the 1995 ACI relating to Bond Strength And Comparison with Other Codes", *J. J. of Applied Science*, Vol. 1, No. 1, 1999, PP 33 – 45.
27. J. Sawan and **H. Qasrawi** "Early Age Properties of Pozzolanic Mortars under Hot Weather". *Journal of Materials in Civil Engineering*, ASCE, Vol. 3, No. 3, August 1991, pp 165-178.

Conferences

1. **Hisham Qasrawi**, "The Use of Recycled Building Rubble in the Reconstruction of Demolished Buildings", *JICEC 2017: The Seventh International Jordanian Civil Engineering Conference Reconstruction of Damaged Zones, The Role of Civil Engineering*. Amman, Jordan 2017.
2. **Hisham Qasrawi**, Jamal Qtaishat and Imad Abed-Al-Rahim , "Quality Control of Concrete in Less Technically Developed Sites: Case Study," , *The 6th International Jordanian International Civil Engineering Conference* , Amman, Jordan 2015.
3. **Hisham Qasrawi** and Ibrahim Asi, "Use of Recycled Concrete Aggregate in Hot Asphalt Mixes" *The Fourth Jordan International Conference and Exhibition for Roads and Transport "High Priority Issues in the Future Transport Sector"* Amman, Jordan 2014.
4. **Hisham Qasrawi**, Iqbal Marie & Hasan Tantawi, "Use of Recycled Concrete Rubbles as Coarse Aggregate in Concrete", *Proceedings of the 5th Jordanian International Civil Engineering Conference*, Amman, Jordan, pp 281-287, 2012
5. Faisal Shalabi, Ibrahim Asi and **Hisham Qasrawi**, "Use of Steel Slag to Improve the Engineering Properties of Base-Course Materials", *International Engineering Conference on Hot Arid Regions*, Al-Ahsa, KSA, March 2010.
6. **Hisham Qasrawi**, "Optimum Plastic Design of Steel Portal Frames", *Third International Conference On Modeling, Simulation, And Applied Optimization*, Sharja, January, 2009.
7. **Hisham Qasrawi**, Faisal Shalabi and Ibrahim Asi, "Effect of Unprocessed Steel Slag on the Strength of Concrete when Used as Fine Aggregate", *Proceedings of the 2nd ACI-KC conference on the Design and Sustainability of Structural Concrete in the Middle East with Emphasis on High Rise Buildings*, Kuwait, 2007, pp 227-237.

* The paper won the second prize.

8. **Hisham Qasrawi** “Deterioration of Concrete Sewers by Bacteria: A Combined Approach”, Presented at the 4th Jordanian Civil Engineering Conference, Jordan, April 2006.
9. **Hisham Y. Qasrawi**, “Corrosion of Steel Reinforcement in by Bacteria”, Proceedings of 12th Conference for Building & Construction, Cairo, 2005, pp 190 – 124.
10. **Hisham Y. Qasrawi**, “Study of Structures Collapsed due to the Snow of 2003”, First Middle East Conference on Advances in Civil, Mechanical and Material Engineering, Amman, Jordan, May 2005.
11. **Qasrawi, H.**, Asi, I.M., Elayan, F., and Hakooz, D., “Analytical Study of Vehicles Speed on Rural Highways”, A paper presented in the Fourth Jordanian Conference for Traffic Safety, Amman, Jordan, May, 2005.
12. Iqbal Marie and **Hisham Qasrawi** “Virtual Assembly of Historical Pottery Fragments Using Moire’ Profile Measurements, Presented at the Third International Conference: Science & Technology in Archaeology & Conservation, Jordan, December 2004.
13. **Hisham Qasrawi** and Yahya Abdel-jawad, “Introducing Self-Compacting Concrete for Developing Countries”, 7th ICCT –I – (9), October,2004, pp 101 – 114.
14. **Hisham Qasrawi** and Yahia Abdel-Jawad “Solving Concrete Compaction Problems in the Middle East”, 6th International Congress on Advances in Civil Engineering (ACE 2004), Istanbul, Turkey, October, 6-8, 2004, pp 1025-1035.
15. **Hisham Qasrawi** and Yahia Abdel-Jawad “Use of Self-Compacting Concrete to Overcome Compaction Problems in the Arab World”, Proceedings InterBuild 11, Egypt, 2004, pp 503-513.
16. Imad Abed Al-Rahim and **Hisham Qasrawi** “Quality Control Of Concrete Building Construction By The "Dozen-M" Philosophy”, Proceedings InterBuild 11, Egypt, 2004, pp 515-521.
17. **Hisham Qasrawi** and Imad Abed Al-Rahim, “Quality Control of Road Construction by the Dozen M-Philosophy”, Proceedings of Jordan International Conference on Sustainable Development of Transportation, Jordan, 2004.
18. **Hisham Qasrawi** and Iqbal Marie, “Investigation of cracks in Concrete Pavements by Non-destructive Techniques”, Proceedings of Jordan International Conference on Sustainable Development of Transportation, Jordan, 2004.
19. **Hisham Y. Qasrawi**, Ibrahim M. Asi and Iqbal Marie, “Steel Slag Aggregate for Road Construction: An Overview”, A paper presented at Industrial and Structural Wastes workshop, Amman, Jordan, December 2003.
20. **Hisham Y. Qasrawi** and Samir Al-Sadder, “The Role of Specifications in the Quality Control of Concrete in the Arab World”, Proceedings of the Seventh Gulf Forum, Kuwait, September 2003.
21. **Hisham Qasrawi** and Peter Kattan, “Minimum Reinforcement Ratio in JBC 5/93: *Is It Safe?*” Presented at the Scientific Days for Civil Engineering, Amman, April, 2003.
22. **Hisham Qasrawi**, “Design of Concrete Mixes in Hot Weather for Minimum Cost”, Proceedings of “Urban Development and Building Problems in Desert Reigns”, Vol. 3, Saudi Arabia, November 2002, pp 581 – 592. Also published in building Technology, Vo1., No. 2,2003, pp 73 – 79.*
23. I. M. Asi, **H. Y. Qasrawi**, H. I. Al-Abdul Wahhab and A. K. Azad, “Cracking of Ground Beams in a Commercial Building: Case Study”, Proceedings of the Sixth International Conference for Concrete Technology in Developing Countries, Jordan, October 2002, pp 809 – 818.
24. **Hisham Qasrawi** and Samir Al-Sadder, “Corrosion of Steel by Bacteria: *A New Perspective*”, Proceedings of the 4th. Jordanian International Chemical Engineering Conference, Jordan, September 2002,pp 575-589.
25. **Hisham Qasrawi**, “Corner Reinforcement in Reinforced Concrete Slabs: Mechanics, Importance and Use”, Proceedings of the 3rd International Jordanian Civil Engineering Conference, Jordan, October, 2001,pp 95-111.
26. **Hisham Qasrawi** and I. Marie, “Monitoring Concrete Failure by USPV Detector”, Proceedings of the first Middle East Nondestructive Testing Conference, Bahrain, September 2001, pp 573-584.
27. **Hisham Qasrawi**, “Lessons from Izmit Earthquake”, Proceedings of the Second National Symposium on Earthquake Engineering, Algeria, October 2000. Also, published in the proceedings of the Scientific Days for Civil Engineering Research, November 2000, pp 3-19.
28. **Hisham Qasrawi**, “Design of Concrete Mixes for the Minimum Cost”, Proceedings of the “Arabic Building Materials and Economic Challenges” Conference, Cairo, 2000, pp 723 – 737.

* The paper won the second prize.

29. **Hisham Qasrawi**, and M. Abu-Afeefeh, “Quality Control of Concrete in Developing Countries”, Proceedings of the “Arabic Building Materials and Economic Challenges” Conference, Cairo, 2000, pp 607 – 626.
30. **Hisham Qasrawi**, “Safety Provisions in the Jordanian Codes: Applicability and Reliability”, Proceedings of Jordan Second Civil Engineering Conference, October 1999, PP 579 – 606.
31. **Hisham Qasrawi** and M. Shaqra, “ Efficient Professional Design of Reinforced Concrete Columns Using JBC 5/93 Recommendations”, Proceedings of Jordan Second Civil Engineering Conference, October 1999, PP 1 – 21.
32. **Hisham Qasrawi**, “A Simple Method for the Determination of Concrete Strength in Existing Structures By Nondestructive Methods”, Published in the Arab Conference for Maintenance and Rehabilitation of Structures”, Cairo, 1998, PP 39 – 57.
33. **Hisham Qasrawi**, “The Role of Bacteria in the Deterioration of Building Materials and Structures”, Civil Engineering Journal, October 1995.
34. **Hisham Qasrawi** "Quality Control of Concrete at Site", Civil Engineering Journal, December 1994, pp 1-4.