**Fady M. A. Hassouna**

Civil and Architectural Engineering Department, An-Najah National University, Nablus, Palestine

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**CURRENT POSITION**

* **Associate Professor at Civil Engineering Department, An-Najah National University, 2014 – Present.**

**EDUCATION**

• PhD. Transportation Engineering, Korea Maritime University, South Korea, 2010 – 2013

• MSc. Transportation Engineering, Korea Maritime University, South Korea,2005 –2007

• BSc. Civil Engineering, An-Najah National University, Palestine, 1999 – 2004

**WORK EXPERIENCE**

* Associate Professor, Civil Engineering Department, An-Najah National University, Nablus, West Bank, Palestine. 2014 - Present.
* Dean of Graduate Studies Faculty, An-Najah National University, 2022 – 2023.
* Head of Natural Sciences Department, Faculty of Graduate Studies, An- Najah National University, 2021 – 2022.

**CERTIFICATIONS OR PROFESSIONAL REGISTRATIONS**

* Member, American Society of Civil Engineering (ASCE), USA, since 2015.
* Member, Institute of Transportation Engineers (ITE), USA, since 2014.
* Member, Jordanian Engineers Association, since 2005.
* Member, Palestinian Engineers Association, since 2004.

**COMPUTER SKILLS**

* Traffic analysis software (Synchro)
* Statistical software (IBM SPSS, Microsoft Excel)
* GIS (ArcGIS)
* Highway geometric design (Civil 3D)
* Database Management (MYSQL)
* Computer programming using R language, Visual C++, MATLAB, VB, Python, and PHP.

**TAUGHT COURSES:**

**MASTER’S COURSES**

* Special Topics in Designing Transportation Facilities
* International Transportation and Logistics
* Sustainable Transportation Systems

**BACHELOR COURSES:**

* Sustainable Transportation Systems
* Transportation Systems II (Traffic Engineering)
* Transportation Systems I (Pavement + Highway Geometric Design)
* Construction Materials
* Principles of Scientific Research and Writing Skills
* Python Programming Language

**RECENT PUBLICATIONS (Last Five Years)**

* **Hassouna FMA**, BDAIR R, ALI M, MOSA M, KAYED M, DARAGHMEH F. (2024). Economic Feasibility and Environmental Implications of Permeable Pavement in Palestine. *Transport Problems*; 19(2):151-162. <https://doi.org/10.20858/tp.2023.19.2.12>
* **Hassouna FMA**, Shin K. (2024). Economic Prospects of Taxis Powered by Hydrogen Fuel Cells in Palestine. *World Electric Vehicle Journal*; 15(2):50. <https://doi.org/10.3390/wevj15020050>
* **Hassouna, Fady**. (2023). Sustainability Assessment of Public Bus Transportation Sector in Westbank, Palestine. Environmental Research Communications. 5. 015001. <https://doi.org/10.1088/2515-7620/acb03f>.
* **Hassouna FMA**. Urban Freight Transport Electrification in Westbank, Palestine: Environmental and Economic Benefits. Energies. 2022; 15(11):4058. <https://doi.org/10.3390/en15114058>.
* **Hassouna, F.M.A.; Assad, M.; Koa, I.; Rabaya, W.; Aqhash, A.; Rahhal, A.; Saqf-Alhait, H. Energy and Environmental Implications of Using Energy-Harvesting Speed Humps in Nablus City, Palestine. Atmosphere 2021, 12, 937.** <https://doi.org/10.3390/atmos12080937>**.**
* **Hassouna, F. M.,** & Al-Sahili, K. (**2020**). Practical Minimum Sample Size for Road Crash Time-Series Prediction Models. *Advances in Civil Engineering*, *2020*, 1–12. <https://doi.org/10.1155/2020/6672612>
* **Hassouna, Fady M.A.,** and Mahmoud Assad. **2020**. "Towards a Sustainable Public Transportation: Replacing the Conventional Taxis by a Hybrid Taxi Fleet in the West Bank, Palestine" International Journal of Environmental Research and Public Health 17, no. 23: 8940. <https://doi.org/10.3390/ijerph17238940>.
* **Hassouna, F. M**., Abu-Eisheh, S., & Al-Sahili, K. (**2020**). Analysis and Modeling of Road Crash Trends in Palestine. Arabian Journal for Science and Engineering, 45(10), 8515-8527. doi: <https://doi.org/10.1007/s13369-020-04740-y.>
* **Hassouna, F. M.,** & Al-Sahili, K. (**2020**). Environmental Impact Assessment of the Transportation Sector and Hybrid Vehicle Implications in Palestine. Sustainability, 12(19), 7878. <https://doi.org/10.3390/su12197878>
* **Hassouna, F. M.,** & Al-Sahili, K. (**2020**). Future Energy and Environmental Implications of Electric Vehicles in Palestine. Sustainability, 12(14), 5515. doi: <https://doi.org/10.3390/su12145515>
* **Fady M. A Hassouna**, Reema Nassar, and Hamees Tubaleh. Electric Vehicles as an Alternative to Conventional Vehicles: A Review. 10th Annual International Conference on Civil Engineering, Athens, Greece, **2020**.
* **Fady M. A Hassouna** and Yeon Woo Jung. (**2020**). Developing a Higher Performance and Less Thickness Concrete Pavement: Using a Nonconventional Concrete Mixture. Advances in Civil Engineering, 2020(6), 1-8.
* **Fady M. A Hassouna**. Performance Analysis of Modern Roundabouts as An Alternative to Conventional Signalized Intersections: A Comprehensive Review. 3rd International Conference on Science & Technology Research, Prague, Czech Republic, **2020**.
* **Fady M. A Hassouna**. (**2020**). Evaluation of Pedestrian Walking Speed Change Patterns at Crosswalks in Palestine. Open Transportation Journal. 14 (1), 44-49.
* **Fady M. A Hassouna**  and Ian Pringle. (**2019**). Analysis and Prediction of Crash Fatalities in Australia. Open Transportation Journal. 13, 134-140.