**CURRICULUM VITAE**

1. **Name - Last name:** Mustafa Alas
2. **Title:** Assist. Prof. Dr**.**
3. **Education:** PhD.

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| **Degree** | **Department** | **University** | **Year** |
| BSc. | Civil and Environmental Engineering | University of Southampton | 2011 |
| MSc. | Civil and Environmental Engineering | Near East University | 2016 |
| PhD. | Civil and Environmental Engineering | Near East University | 2021 |

1. **Masters/PhD. Thesis**
   1. **PhD Thesis /Medical Specialty Thesis Title and Advisor(s):**

The Performance Characteristics of Polymer Nanocomposite Modified Binders and Asphalt Mixtures (2021). Prof. Dr. Huseyin Gokcekus and Assoc. Prof. Dr. Shaban Ismail Albrka.

1. **Academic Title:** Assist. Prof. Dr.
   1. **Date for Assistant Prof. Dr. Title:** 24/03/2022
   2. **Date for Associate Prof. Dr. Title:**
   3. **Date for Professor Title:**
2. **Master and PhD thesis supervised:**
   1. **Master’s Thesis:**
      1. “Investigating the Performance Characteristics of Fiber Reinforced Rigid Pavements” Sajjad Hamdan (2024-Expected)
      2. “The influence of aggregate gradation and asphalt mix volumetrics on the thermal properties of asphalt concrete” Sajh Mohammed (2024-Expected)
      3. “Bridging the gap in Traffic Safety by using SWOT and TOWS analysis: The Northern Cyprus Case” Sakariye Adam Farah (2024-Expected)
      4. “Pavement Condition Evaluation by using Image Segmentation. A Case Study of North Cyprus” Zerrin Turkhan (2024-Expected)
      5. “Investigating the Effect of Road Width on Passenger Car Units (PCU) under Heterogeneous Traffic Conditions” Yasin Ahmed Addow (2023)
      6. “Identification of Pavement Defects by Using Machine Learning Algorithms” Hassan Idow Mohammed (2023)
      7. “Investigation of Asphalt Deterioration with System Dynamics Approach” Omer Tokdemir (2023)
      8. “Optimization of Traffic Lights Operating System by Using Sidra Intersection: A Case Study of Ajdabiya, Libya” Mohammed Alshannakiyah (2023)
      9. “GIS-Based Spatial Analysis of Road Traffic Accidents: A Case Study of Mogadishu City, Somali” Abdikarin Isak Hashi (2023)
      10. “Multi-Criteria Decision Analysis for Evaluating the Optimum Performing Asphalt Binder Based On Experimental Outcomes” Abdirahman Ahmed Adam (2023)
   2. **PhD. Thesis:**
      1. “Effects of tire rubber aggregates size and glass powder on hardened and dynamic properties of high strength concrete” Nouraldin Abunassar (2024-Expected)
      2. “3D numerical modelling and experimental evaluation of an asphalt solar collector” Serah Onuh John (2025-Expected)
3. **Publications:**
   1. **Articles published in international peer-reviewed journals (SCI & SSCI & Arts and Humanities)**
      1. Abunassar, N., Alas, M., & Ali, S. I. A. (2023). Prediction of compressive strength in self-compacting concrete containing fly ash and silica fume using ANN and SVM. Arabian Journal for Science and Engineering, 48(4), 5171-5184.
      2. Alas, M., Abba, S. I., Ismael Albrka Ali, S., Rahim, A., & Yusoff, N. I. M. (2022). Evaluating the Performance of Aluminum Oxide Nanoparticle-Modified Asphalt Binder and Modelling the Viscoelastic Properties by Using Artificial Neural Networks and Support Vector Machines. Advances in Materials Science and Engineering, 2022.
      3. Mustafa, A. L. A. S., Albrka, A., & GÖKÇEKUŞ, H. (2022). The High Temperature Performance Evaluation of Polymer/Nanocomposite Modified Asphalt Cement. Teknik Dergi, 33(4), 12143-12162.
      4. Alas, M., Ali, S. I. A., Abdulhadi, Y., & Abba, S. I. (2020). Experimental evaluation and modeling of polymer nanocomposite modified asphalt binder using ANN and ANFIS. Journal of Materials in Civil Engineering, 32(10), 04020305.
   2. **Articles published in other international peer-reviewed journals (ESCI and Scopus)**
      1. Korutürk, K., & Alas, M. (2023). Characterisation of Acrylonitrile Styrene Acrylate Modified Asphalt Cement with Nano Iron Oxide and Nano Silica Particles. Jurnal Kejuruteraan, 35(2), 453-463.
      2. Ismail, I. F., Mohammed, A. N., Basuno, B., Alimuddin, S. A., & Alas, M. (2022). Evaluation of CFD Computing Performance on Multi-Core Processors for Flow Simulations. Journal of Advanced Research in Applied Sciences and Engineering Technology, 28(1), 67-80.
      3. Nicosia, N. C. (2022). Short-Term Aging Performance and Simulation of Modified Binders Using Adaptive Neuro-Fuzzy Inference System. Jurnal Kejuruteraan, 34(4), 719-727.
      4. Alas, M., & Ali, S. I. A. (2019). Prediction of the high-temperature performance of a geopolymer modified asphalt binder using artificial neural networks. Int. J. Technol, 10(2), 417-427.
   3. **Bulletins presented in international scientific meetings and published in proceedings:**
      1. The Classification of Asphalt Pavement Crack Images Based on Beamlet Transform. *7th International Conference on Technology, Engineering and Science.* (2023)
      2. The evaluation of the impact of road width on passenger car units (pcu) in heterogeneous traffic conditions. *7th International Conference on Technology, Engineering and Science.* (2023)
      3. Applications of Machine Learning and Deep Learning in Pavement Crack Detection and Characterisation: A Comparative Approach. *16th International Conference on Applications of Fuzzy Systems, Soft Computing and Artificial Intelligence Tools.* (2023)
      4. Investigation of Asphalt Ravelling: A system Dynamics Approach. *9th International Conference on Advances in Machinery, Materials Science and Engineering Applications.* (2023)
      5. Multi Criteria Performance Analysis for Nano-Iron Oxide Modified Asphalt Cement by using Fuzzy Promethee II. *9th International Conference on Advances in Machinery, Materials Science and Engineering Applications*. (2023)
   4. **International books or sections of book published:**
      1. Alas, M., Ozsahin, D. U., Gokcekus, H., Uzun, B., & Albrka, S. I. (2022). Environmental Impact Assessment for the Production of Aggregates Used in the Construction Industry by Using MCDA. In Decision Analysis Applied to the Field of Environmental Health (pp. 53-63). Cham: Springer International Publishing.
   5. **Articles published in national journals:**
   6. **Bulletins presented in national scientific meetings and published in proceedings:**
   7. **Other publications:**
   8. **Number of International citations:** 61
4. **National and international projects:**
5. **Administrative duties:**
6. Vice Dean. Faculty of Civil and Environmental Engineering/NEU. (2022-Present)
7. **Scientific and professional memberships:**
8. KTMMOB Chamber of Civil Engineers. (2011-Present)
9. Türk Dünyası Mühendisler ve Mimarlar Birliği. (2021- Present)
10. **Awards:**
11. Young Researcher Award- Near East University. (2021)
12. **Undergraduate courses taught in the last two years:**

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| **Academic Year** | **Semester** | **Course Name** | **Hours per Week** | | **Level of Study** |
| **Theory** | **Application** |
| **2021/22** | **Fall** | Transportation Engineering | 3 | - | Undergraduate (Compulsory) |
| Materials Science | 2 | 2 | Undergraduate (Compulsory) |
| Construction Engineering and Management | 4 | - | Undergraduate (Compulsory) |
| Technical Drawing | 1 | 2 | Undergraduate (Technical Elective) |
| **Spring** | Materials of Construction | 2 | 2 | Undergraduate (Compulsory) |
| Technical Drawing | 2 | 2 | Undergraduate (Compulsory) |
| Construction Engineering and Management | 4 | - | Undergraduate (Compulsory) |
| Advanced Pavement Materials | 2 | 1 | Undergraduate (Technical Elective) |
| **2022/23** | **Fall** | Transportation Engineering | 3 | - | Undergraduate (Compulsory) |
| Materials Science | 2 | 2 | Undergraduate (Compulsory) |
| Construction Engineering and Management | 4 | - | Undergraduate (Compulsory) |
| Soil Mechanics-I | 2 | 2 | Undergraduate (Compulsory) |
| **Spring** | Technical Drawing | 1 | 2 | Undergraduate (Compulsory) |
| Materials of Construction | 2 | 2 | Undergraduate (Compulsory) |
| Construction Engineering and Management | 4 | - | Undergraduate (Compulsory) |
| Advanced Pavement Management Systems | 3 | - | Postgraduate (Technical Elective) |