## CURRICULUM VITAE (2023) MOSTAFA DEEB HASHEM

#### MOSTAFA DEEB HASHEM

Civil Engineering Department, Faculty of Engineering, El-Minia University, El-Minia, Egypt, Tel: +20-86-353376 Mobile: +201090041927 Fax: +20-86-342601 E-mail: <u>m\_deep\_2009@yahoo.com</u> E- mail: mostafa.deep@nub.edu.eg Ph.D. Civil Engineering M.Sc. Civil Engineering B.Sc. Civil Engineering



Birth: 19.06.1961, EgyptMother tongue: ArabicSecond language: EnglishMarital status: married, four children

## EDUCATION

**Ph.D. Civil Engineering** (1992-1996), Highway Laboratory in Bodenkultor Institute Vienna Austria and Soil Mechanics Laboratory, Civil Engineering Department, Faculty of Engineering, El-Minia University, Egypt.

Thesis: "Strengthening of soil material with geogrids and geotextiles".

The Ph.D. research consisted of three major parts. In the first part, an extension and pull-out tests on the geotextile material was employed. The second part of study is conducted to study the factors affecting road resistance to external loading. It is directed towards investigating the effect of using geotextiles embedded in coarse sand on its bearing capacity. The third part contains a study of the behaviour of different fabric reinforced subgrade soils. The machine used was the mould of centrifuge, which is connected to UPM60 machine.

**M.Sc. Civil Engineering** (1987-1991). Soil Mechanics Laboratory, Civil Engineering Department, Faculty of Engineering, El-Minia University, Egypt.

Thesis: "Strengthening of saturated low permeability, subgrade soil for unpaved roads ".

In this study, a laboratory investigation is carried out to study the effect of introducing a geogrid material on the behavior of soft subgrade soil in Soil-Fabric-Aggregate (SFA) system. The load tests carried out consist of placing subgrade soil, geogrid and granular material in a mold and loading the surface of such system with a static load.

**B.Sc. Civil Engineering** (1979-1984). Civil Engineering Department, Faculty of Engineering, Assiut University, Egypt. **Graduation Project**: "Railway Engineering", estimate "destination".

## **EMPLOYMENT STATUS:**

- 1- Performing military service in the Egyptian Armed Forces from October 1984 to January 1986
- 2- Engineer in Assiut irrigation projects from February 1986 to August 1987
- 3- Teaching assistant in the Department of Civil Engineering, Faculty of Engineering Minya University from August 1987 to April 1991
- 4- Assistant lecturer in the Civil Engineering Department, Faculty of Engineering Minya University from April 1991 to November 1996.
- 5- Lecturer (Assistant Professor) in the Civil Engineering Department, Faculty of Engineering Minya University - from November 1996 to July 2004
- 6- Associate Professor in the Department of Civil Engineering, Faculty of Engineering Minya University - from July 2004 until February 2015.
- 7- Professor in the Department of Civil Engineering, specializing in Highway Engineering, Faculty of Engineering Minya University from February 2015 until now.
- 8- Head of the Civil Engineering Department, Faculty of Engineering Minya University from September 2019 until September 2021.
- 9- Member of the arbitrators' committees for the positions of professors and assistant professors for the thirteenth session 2019 2022 Public Works and till now.
- 10- Head of the Civil Engineering Department, Faculty of Engineering Nahda University from September 2022 until now.

## **Current job:**

Head of the Department of Civil Engineering at the Faculty of Engineering - Nahda University - from September 2022 until now and a full-time professor in the Department of Civil Engineering, Minya University.

## **Educational activity:**

## 1) Courses taught at the bachelor's level (Undergraduate courses):

## Within the university (Faculty of Engineering, Minya University):

- Highway and airport engineering
- Railway Engineering
- Elective course "Airport Engineering"
- Transportation and Traffic Engineering
- Transportation Engineering
- Highway and airports project
- Supervising the roads, Highway and railway projects from 1996 until now.
- Numerical analysis and programming
- Descriptive geometry and engineering drawing

- Structural analysis 1

#### Assignment outside the university:

#### 1- Faculty of Industrial Education - Beni Suef University: (period from 1997-2002)

- Highway engineering

#### 2- Faculty of Engineering, Aswan University : (period from 1997-2003)

- Transportation planning and traffic engineering
- Highway and airport engineering
- Railway Engineering
- Highway project

#### 3- Faculty of Engineering, Qena, Al-Azhar University: (period from 1997-2003)

- Transportation planning and traffic engineering
- Highway and airport engineering
- Railway Engineering
- Highway project

#### 4- Faculty of Engineering - Omar Al-Mukhtar University - Libya: (Period 2003-2010)

- Transportation planning and traffic engineering
- Highway and airport engineering
- Railway Engineering
- Highway project
- Plane Surveying
- Geodetic surveying.
- Writing technical reports.
- Engineering mathematics 3.
- Descriptive Geometry
- Engineering Drawing,

#### 5- Higher Institute of Engineering and Technology in Minya: (period from 2010 until 2018)

- Transportation planning and traffic engineering
- Railway Engineering
- Transportation Engineering
- Highway and airport engineering.

#### 6- Higher Institute of Engineering and Technology, 10th of Ramadan: (Period 2015-2016)

- Highway and airport engineering

#### 7- Faculty of Engineering - Nahda University: (period from 2016 until now)

- Highway engineering.

- Engineering surveying.
- Construction engineering.
- Highway engineering project.
- Construction project management.
- Structures and properties of construction materials
- Properties of construction materials for architecture Engineering
- Principles of construction engineering
- Transportation engineering
- Transportation Engineering planning
- Transportation and traffic engineering

#### 2) Postgraduate courses:

- Advanced Highway and airport engineering
- A course on experimental measuring devices and methods
- Transportation planning
- Advanced Highway Engineering
- Transportation planning and traffic engineering
- Paving design
- Paving materials
- Pavement maintenance.
- Airport paving design

#### 3) Creating books, educational notes, and electronic courses for the following subjects for undergraduate students

- Highway and airport engineering
- Railway Engineering
- Transportation and Traffic Engineering
- Airport Engineering
- Construction engineering.
- Construction project management.
- Structures and properties of construction materials
- Properties of construction materials for architecture engineering
- Principles of construction engineering

## **RESEARCH SUPERVISOR**

#### (A) The Master's Thesises that have been discussed:

- 1. (2000) for a master degree in Civil Engineering Department, Faculty of Engineering, Al-Minia University, Egypt. Thesis title: "Behavior of Reinforced Roads Constructions Adjacent to Water Canals" by Aly Ahmed Aly.
- 2. (2014) for a master degree in Civil Engineering Department, Faculty of Engineering, Al-Minia University, Egypt. Thesis title: "Investigation of Bumps at Bridge Approaches" by Beshoy Maher Hakeem.
- 3. (2015) for a master degree in Civil Engineering Department, Faculty of Engineering, Al-Minia University, Egypt. Thesis title: "Investigation of aggregate characteristics on hot asphalt concrete mixtures" by Samir Azmy Abdalla.
- 4. (2016) for a master degree in Civil Engineering Department, Faculty of Engineering, Al-Minia University, Egypt. Thesis title: "Stabilization of expansive subgrade soil by using additives" by Ahmed Awad Hag.
- 5. (2018) for a master degree in Civil Engineering Department, Faculty of Engineering, Al-Minia University, Egypt. Thesis title: "Evaluation of Road Embankment Slope Deformation" by Israa Badr Omer.
- **6.** (2022) A master degree in Civil Engineering Department, Faculty of Engineering, Al-Minia University, Egypt. Thesis title: "Applicability of Optimized Numerical Models of Slope Stability of Road Embankments Adjacent to Water Channels under Traffic Load "by Amer Mansour.
- 7. (2023) A master degree in Civil Engineering Department, Faculty of Engineering, El-Minia University, Egypt. Thesis title: "Amelioration of Pavement Maintenance Management System (PMMS) For Selected Roads in Minya City, Egypt" by Mohamed Abdel Moez.

#### B) PhD dissertations that have been discussed:

- (2004) for Ph.D degree in Civil Engineering Department, Faculty of Engineering, El-Minia University, Egypt. Thesis title: "Utilization of Shredded Waste Tires in the Reinforcement of Unpaved Road over Soft Clay" by Aly Ahmed Aly.
- (2020) for Ph.D degree in Civil Engineering Department, Faculty of Engineering, El-Minia University, Egypt. Thesis title: "Development of Pavement Deterioration Models for Egypt Main Roads Network" by Mostafa Mahmoud Yassen Radwan.
- 3. (2021) for Ph.D degree in Civil Engineering Department, Faculty of Engineering, Aswan University, Egypt. Thesis title: "Utilization of Chemical Additives on Hot Mix Asphalt" by Samir Azmy Abdalla.

#### (C) The Master's Thesises are not discussed yet: -

1. A master degree in Civil Engineering Department, Faculty of Engineering, El-Minia University, Egypt. Thesis title: "Development of Passenger Car Unit Equivalent for Intercity Roads in Egypt" by Dalia Mohamed. 2. A master degree in Civil Engineering Department, Faculty of Engineering, Aswan University, Egypt. Thesis title: "Investigation the effect of Nano materials on physical and mechanical properties of Hot Mix Asphalt mixtures "by Mahmoud Helmy Othman.

## **BOOKS PUBLICATIONS**

- 1- Highway Engineering Book.
- 2- Railway Engineering
- 3- Transport and Traffic Engineering
- 4- Airport Engineering

### CONFERENCES

- 1. January 5–8,1997, attended and presented a paper in International Conference on Geotechnical Engineering, Faculty of Engineering, Cairo University.
- 2. March 14–16,1999, attended and presented a paper in El-Minia Engineering 1<sup>st</sup> International Conference For Advanced Trends In Engineering, Cairo, Egypt.
- 3. June, 7-10, 1999, attended and presented a paper in **Twelfth European Conference on Soil** Mechanics and Geotechnical Engineering / Amsterdam / Netherlands.
- 4. April,11-13, 2000, attended and presented a paper in **El-Mansoura Third International Engineering Conference**, El-Mansoura, Egypt.
- 5. April,7-10, 2003, attended and presented a paper in **seventh International Engineering Conference**, Al-Azhar university, Egypt.
- 6. October, 2003, attended and presented a paper in First International Engineering Conference for Civil Engineering, Assiut University, Egypt.
- 7. May, 17-19, 2005, attended and presented a paper in **First International Conference on Waste Management and Recycling**, France,.
- 8. November, 9-10, 2009, attended and presented a paper in **first International Engineering Conference** for road safety, Tarablus, Libya.
- December 12-14, 2012, attended and presented a paper in International Conference in Transportation Planning & Implementation Methodologies for Developing Countries, TPMDC 2012, Indian Institute of Technology Bombay, India,.
- 10. November, 17-22, 2015, attended and presented a paper in Eighth International Engineering Conference in Mansura University and Sharm El-Shehk, November 2015, Mansura University and Sharm El-Shehk, Egypt.
- 11. Julio, 14-17, 2022, attended and presented a paper in Al-Minia International Engineering Conference for Engineering and Environmental, Hurghada, Egypt.

## PUBLICATIONS

1. Fayek A.K. Hassona, M.K. El Rayes, **Mostafa D. Hashem**, "Strengthening of Saturated Low Permeability, Subgrade Soil for Unpaved Road", Engineering Research Bulletin, University of Helwan, Volume 3, March 1991.

- Fayek A.K. Hassona, Mohamed A.Hassan, Mostafa D. Hashem, "Pullout Resistance of Geotextile", International Geoechnical Engineering, Conference Cairo University 5-8 January 1997.
- **3.** Fayek A.K. Hassona, Mohamed A.Hassan, **Mostafa D. Hashem**" Fabric Reinforced Subgrade Clayey Soil", International Geoechnical Engineering, Conference Cairo University 5-8 January 1997.
- Emad A.M. Osman, Mostafa D. Hashem and Salah G. Ahmed, "Sandy Soil Stabilization Using Fine Soil And Silca Fume", 1<sup>st</sup> Minia International Conference For Advanced Trends In Engineering, 14<sup>th</sup> –16<sup>th</sup> March 1999.
- 5. F.A.K. Hassona, M.A. Hassan and **M.D. Hashem**, "Shear Strength Characteristics of Reinforced Sand", Proceedings of the Twelfth European Conference on Soil Mechanics and Geotechnical Engineering / Amsterdam / Netherlands, 7-10 June 1999.
- 6. **Mostafa D. Hashem**, " Improvement of Bearing Capacity of Soft Subgrade Soil", Mansoura Third International Engineering Conference, El-Mansoura 11-13 April 2000.
- 7. **Deep M.Hashem**, Mahmoud Abdel Megeed A.G. Aly and Youness H. "Elasto-Plastic Finite Element Analysis of Pullout Resistance of Geosynthetics In Sandy Soil" Bulletin Of Faculty of Engineering, Assiut University, Vol.29, No. 1, January 2001.
- 8. Fayek A.K. Hassona, Mohamed A.Hassan, **Mostafa D. Hashem**, Aly A. Aly "Behaviour of Unpaved Road Reinforced With Geotextiles", Bulletin Of The Faculty of Engineering, Minia University, Vol.20, No.1, July, 2001.
- 9. Fayek A.K. Hassona, Mohamed A.Hassan, **Mostafa D. Hashem**, Aly A. Aly "Effect of Water Level Fluctuation In Canals On The Behaviour of Reinforced Embankment", Bulletin Of The Faculty of Engineering, Minia University, Vol.20, No.1, July, 2001.
- 10. **Mostafa D. Hashem**, "Investigating The Factors Affecting The Bituminous Road Surfacing Layer Cracks", Journal of Engineering Sciences, Assiut University, Vol.30, No.1, January 2002.
- 11. **MD Hashem**, KA Gwaad, "Stresses within Highway Structure Soil under the Effect of Heavy Vehicle Loads", Bulletin of the Faculty of Engineering, Minia University, Vol.20, No.2, January 2002, PP 93 105.
- **12. M.D. Hashem**, "A Simplified Method for Flexible Pavement Economic Design Based On Elastic Layer Theory", Al-Azhar Engineering 7<sup>th</sup> International Conference 7-10 April, 2003.
- 13. M.D. Hashem, "A Simplified Method for Rigid Pavement Design Based on Analyses of Stresses and Strains", 1st International Conference of Civil Engineering Science in Assuit University, ICCES1, Vol. 1, October, 2003.
- 14. F.A. Hassona, M. A. Hassan, N. A. Marei, **M.D. Hashem**, "Shredded Waste Tires As A Stabilizing Material For Unpaved Roads", Mansoura Engineering Journal, (MEJ), Vol.31, No.1, March 2003, PP 47 57.

- 15. F. A. Hassona, M. A. Hassan ,M.D. Hashem N. E. Marei , A.A. Aly , "Numerical Analysis Of Reinforced Unpaved Road", Bulletin Of The Faculty of Engineering, Minia University, Vol.25, No.2, July, 2006, PP 12 – 27.
- 16. FA Hassona, MA Hassan, MD Hashem, NA Marei, AA Aly, "Improvement of soft clay characteristics using sand cushion reinforced with shredded waste tire", Proceedings of the 1st International Conference on Engineering for Waste Treatment, Beneficial Use of Waste and by-Products, 17-18 May, 2005.
- 17. **M.D. Hashem**, A.J. Ibrahim , O. R. Elzarok , " Analysis of Traffic Accidents in Libya", first International Conference for road safety , 9-10 November, Tarblus, Libya, 2008.
- 18. **M.D. Hashem**, "Sag Vertical Curves Design under Overhead Structures", International Conference in Transportation Planning & Implementation Methodologies for Developing Countries", TPMDC 2012, Indian Institute of Technology Bombay, India, 12-14 December 2012.
- 19. **M.D. Hashem**<sup>,</sup> "Simplified Approach For The Design Of Lateral Clearance Needs On Simple Horizontal Curves", Minia Journal of Engineering and Technology, (MJET) , July, 2012, Vol. 31, No 2, PP 56 62.
- 20. **M.D. Hashem**, "Simplified Charts for Overlay Design of Flexible Repaved Roads Structure (Sandwich Section)", Journal of Engineering Sciences, Assiut University, January 2013.
- 21. **M.D. Hashem**, Naglaa K. Rashwan "The Influence of Resin Modifiers on the Performance of Hot Asphalt Concrete Mixes", Journal of Engineering Sciences, Assiut University, January 2013, Vol.41, No.3, PP 867-885..
- 22. **Mostafa D. Hashem** and Ahmed Mosa Abu-Baker, "Numerical Modeling of Flexible Pavement Constructed On Expansive Soils", European International Journal of Science and Technology, Vol. 2, No.10, December 2013, PP 19-34.
- 23. Fayek A. Hassona, **Mostafa D. Hashem**, Remon I. Abdelmalak and Beshoy M. Hakeem<sup>,</sup> "Finite Element Modeling Of Bumps At Bridge Aproaches", Minia Journal of Engineering and Technology, (MJET), July, 2014.
- 24. Hassan Youness Ahmed, Mostafa Deep Hashem, Naglaa Kamal Rashwan, Samir Azmy Abdalla, "Investigation Of Aggregate Particles Shape On Characteristics Of Hot Mix Asphalt", Journal of Engineering Sciences, Assiut University, November 2014, Vol.42, No.6, PP 1349 – 1366.
- 25. Hassan Youness Ahmed, **Mostafa Deep Hashem**, Naglaa Kamal Rashwan, Samir Azmy Abdalla, "Effect Of Aggregate Type And Mineral Filler On Characteristics Of Hot Mix Asphalt", Eighth International Engineering Conference in Mansura University and Sharm El-Shehk, 17-22 November, 2015.
- Mostafa D. Hashem, Afaf A.Mahmoud, Ahmed M. Abu Bakr, Ahmed A. Hag, "Stabilization of Expansive Subgrade Soil Using Additives", Journal of Engineering Sciences, Assiut University, PP 122-131, March 2016.

- 27. Hassona, Fayek; Hashem, Mostafa D; Abdelmalak, Remon I; Hakeem, Beshoy M, "Bumps at Bridge Approaches: Two Case Studies for Bridges at El-Minia Governorate, Egypt", International Congress and Exhibition" Sustainable Civil Infrastructures: Innovative Infrastructure Geotechnology", 15 may, 2017, pp. 265 280.
- 28. **Mostafa Deep Hashem**, Ahmed Mohamed Hassan, Ahmed Mousa ABO Baker, Esraa Bader Omer, "Evaluation Of Road Embankment Slope Deformation", Minia Journal of Engineering and Technology, (MJET), July, 2017.
- 29. Mostafa D. Hashem, Mostafa A. Abo-Hashema, and Hamdy P. Faheem, Mostafa M. Radwan, "Development of Distress Prediction Models for Flexible Pavements using LTPP for Main Roads in Egypt", 17<sup>th</sup> Annual International Conference on Asphalt, pavement Engineering & infrastructure 21-22 February 2018, Liverpool University.
- 30. Mostafa D. Hashem, , Mostafa A. Abo-Hashema, and Hamdy P. Faheem, Mostafa M. Radwan, " Modeling Pavement Performance Using LTPP Database for Flexible Pavements", Teknik Dergi , July 2020, Paper 583 page 10127-10146.
- 31. Mostafa D. Hashem, Mostafa A. Abo-Hashema, and Hamdy P. Faheem, Mostafa M. Radwan, " ANN-based Fatigue and Rutting Prediction Models versus Regression-based Models for Flexible Pavements", International Congress and Exhibition "Sustainable Civil Infrastructures" GeoMEast November 2019: Recent Developments in Pavement Engineering pp 117-133.
- 32. Hassan Y. Ahmed, Ayman M. Osman, Mustafa D. Hashem, Samir Azmy Abdalla<sup>, "</sup>Investigating the Performance of Hot Mix Asphalt Modified with Chemical Additives", Mansoura Engineering Journal, (Mej), Vol. 46, Issue 1, March 2021, pp 11- 18.
- 33. Hassan Y. Ahmed, Ayman M. Osman, Mustafa D. Hashem, Samir Azmy Abdalla, "Effect Of Chemical Additives On The Performance Of Asphalt Pavement Exposed To Wastewater", Journal of Engineering Sciences, Assiut University, Faculty of Engineering, Vol. 49, No. 1, March 2021 PP. 107 – 130
- **34.** Mustafa El-Rawy, Ahmed A. Makhloof, Mostafa Deep Hashem, Mohamed Galal Eltarabily, "Groundwater management of quaternary aquifer of the Nile Valley under different recharge and discharge scenarios: A case study Assiut governorate, Egypt", Ain Shams Engineering Journal, February 2021, journal homepage: <u>www.sciencedirect.com</u>.
- 35. Amr M. Rashad , Mostafa D. Hashem , Afaf M. Abdelhamed , Tarek Elsayed Mahmoud , "Optimized Numerical Models of Slope Stability of Roads Embankment Using Limit Equilibrium Method", 2<sup>nd</sup> International Conference on Civil Engineering: Recent Applications and Future Challenges, ICCE2021, 29-31 October, Assiut, Egypt.
- **36.** Amr M. Rashad , **Mostafa D. Hashem** , Afaf M. Abdelhamed , Tarek Elsayed Mahmoud , " The Effect Of Soil Nailing On Slope Stability Of Road Embankments Under Traffic Load Using The Optimised Lem", Minia Journal of Engineering and Technology, (MJET), Under Review , 2022.
- 37. Mostafa M. Radwan , Aiman A. Rsheed, Mostafa Deep. Hashem, "Reducing Carbon Emissions by

Re-Planning Roads, (The Eastern Road, The Helwan Gate Area, As an Example)", Minia International Conference on Environment and Engineering, July, 14-17, 2022 Hurghada, Egypt.

- 38. Ahmed A. Makhlouf, Mustafa El-Rawy, and Mostafa Deep Hashem, "Simulation of Groundwater and Surface Water Interactions under Various Management Scenarios in the Nile Valley, Egypt", Minia International Conference on Environment and Engineering, July, 14-17, 2022 Hurghada, Egypt.
- 39. Mostafa Deep Hashem, Afaf A. Mahmoud, Mohamed A. Abd El moez, 'Hamdy B. Faheem, "Developing a Pavement Condition Monitoring System and Maintenance Decision Selection for Road Networks", Minia International Conference on Environment and Engineering, July, 14-17, 2022 Hurghada, Egypt.

#### **RESEARCH AND THESES THAT HAVE BEEN ARBITRATED AND DISCUSSED:** A- Journal of Engineering Sciences, Assiut University:

- 40. Utilization of Industrial Waste Material in Highway Construction. 5 1 2020.
- 41. Evaluation of Recycled Asphalt Mixture Technically and Economically. 16 1 2020.

#### **B-** Journal of Transportation Engineering

 "A procedure for the dynamic analysis of railway accidents by means of train monitoring". Technical Paper #TEENG-1141, Friday, June 17, 2011 9:40 AM

#### **C- KSCE Journal of Civil Engineering:**

- 2- The inter-laminar shear and fatigue performance of pavement structure connected by the nail. KSCE-D-12-00325. 28-7-2012.
- Research on Bitumen Absorption and Film Thickness in Bituminous Mixture with Basic Oxygen Furnace Slag. KSCE-D-12-00450 23-10-2012.
- 4- Development of High Performance Asphalt Mastic Using Fine Taconite Filler. KSCE-D-13-00207. 6-8-2013.
- 5- Prediction of Swelling Pressure for Designing the Flexible Pavements: Tebessa city as case of study (Algeria). KSCE-D-13-00701KSCE-D-13-00701. 3-2-2014
- Evaluation Time-Temperature Sensitivity on Stiffness of Hot Asphalt Mixtures. KSCE-D-14-00093. 2-4-2014.
- 7- Development of a Predictive Model for the Number of Potholes using a Harmony Search Algorithm and Multiple Regression Analysis. KSCE-D-14-00807. 22-12-2015
- 8- Utilization of higher amount of Reclaimed Asphalt Pavement using suitable Rejuvenators-A step forward to Sustainable Development. KSCE-D-14-00709. 16-4-2015
- 9- Evaluation of Pavement Subgrade Long-Term Equilibrium Moisture with Suction Potential. KSCE-D-17-01227. 31-8-2017
- 10- Hydrological Performances on the Modified Permeable Pavement with Precast Hollow Cylinder Micro Detention Pond Structure. KSCE-D-18-02271R1. 24-4-2019

#### **D- Thesis:**

- 1. April (2020) A master degree in Civil Engineering Department, Faculty of Engineering, Aswan University, Egypt. Thesis title: Utilization of Reclaimed Asphalt in Asphalt Mixture", Master Thesis Hadier Galal Abo-Elhussan.
- (2021) A master degree in Civil Engineering Department, Faculty of Engineering, Assuit University, "Asphalt Concrete Mixtures Containing Reclaimed Asphalt Pavement (RAP) ", Master Thesis Amira Nasser Ahmed,
- 3. April (2017) A master degree in Civil Engineering Department, Faculty of Engineering, Aswan University, Egypt. Thesis title: Traffic accidents prediction model using fuzzy logic: Aswan desert road as a case of study. Master Thesis, Mohamed Gaber Ibrahim.
- 4. (2014) A master degree in Civil Engineering Department, Faculty of Engineering, Al-Mina University, Egypt. Thesis title: Investigation of Bumps at Bridge Approaches Beshoy Maher.
- 5. (2015) A master degree in Civil Engineering Department, Faculty of Engineering, Al-Mina University, Egypt. Thesis title: Investigation of aggregate characteristics on hot asphalt concrete mixtures. Samir Azmy.
- 6. (2016) A master degree in Civil Engineering Department, Faculty of Engineering, Al-Mina University, Egypt. Thesis title: Stabilization of expansive subgrade soil by using additives. Ahmed Hag Awaad.
- (2018) A master degree in Civil Engineering Department, Faculty of Engineering, Al-Mina University, Egypt. Thesis title: Evaluation of Road Embankment Slope Deformation. Esra bader Omer.
- (2020) A Ph.D degree in Civil Engineering Department, Faculty of Engineering, Al-Mina University, Egypt. Thesis title: Development of Pavement Deterioration Models for Egypt Main Roads Network. Mostafa Mahmoud Yassen.
- 9. (2022) A master degree in Civil Engineering Department, Faculty of Engineering, Al-Minia University, Egypt. Thesis title: "Applicability of Optimized Numerical Models of Slope Stability of Road Embankments Adjacent to Water Channels under Traffic Load " Amer Mansour.
- 10. (2023) A master degree in Civil Engineering Department, Faculty of Engineering, Al-Minia University, Egypt. Thesis title: "Amelioration of Pavement Maintenance Management System (PMMS) For Selected Roads in Minya City, Egypt", Mohamed Abdel Moez.
- 11.(2023) A Ph.D degree in Civil Engineering Department, Faculty of Engineering, Fayoum University, Egypt. Thesis title: "Modeling of Using Advanced Material to Enhance Rigid Pavement Performance with Heavy Loads", Abeer Mohamed Hassan.
- 12. (2022) A master degree in Civil Engineering Department, Faculty of Engineering, Assuit University, "Performance Study Of Additives On Hot- And Warm- Asphalt Mixtures Modified With Polymers", Master Thesis, Ibrahim Abd-elbaset Ismail Sallam.

- 13. (2021) A master degree in Civil Engineering Department, Faculty of Engineering, Al-Mina University, " Modeling Interaction between Groundwater and Surface Water under Different Management Scenarios in the Nile Valley, Assiut Governorate ", Master Thesis, Ahmed Atef Makhloof.
- 14. (2023) A master degree in Civil Engineering Department, Faculty of Engineering, Fayoum University, Egypt. Thesis title: "Optimization of Performance related Specifications Variables for Flexible Pavements Using Genetic Algorithms", Hassan Mohamed Abdelgawad EL-Dash.
- 15. (2022) A master degree in Civil Engineering Department, Faculty of Engineering, Al-Mina University, "Risk Analysis And Management For Roads Construction Projects In Egypt ", Master Thesis, Khaled Gamal Mohmed Marouf
- 16. (2020) A master degree in Civil Engineering Department, Faculty of Engineering, Assuit University, " Issues and challenges Related to signal timing of Intersections at Congested Transportation networks ", Master Thesis, Omar Aboalwafa Ali.

## AFFILIATIONS

1- Member in the syndicate of Egyptian Engineers since July 1984.

- 11-Member of the Advisory Unit, Faculty of Engineering, Minia University, since 1996.
- 12- Member of the arbitrators' committees for the positions of professors and assistant professors for the thirteenth session 2019-2022 Public Works.

## **Consulting work**

The following consulting work was carried out through the consulting unit at the Faculty of Engineering - Minya University – Nahda University:

- 1. Planning and design of the infrastructure for internal roads in the industrial zone in Al-Mutahra, Minia Governorate, for an area of 1,516 acres.
- 2. Supervising the implementation of internal roads in the industrial zone in Al-Mutahra, Minia Governorate, for an area of 1,516 acres.
- 3. Planning and designing the infrastructure for internal roads and supervising implementation at Minya University.
- 4. Design work for various road projects within Minia Governorate.
- 5. Testing work and writing technical reports on roads in the Roads Laboratory at the Faculty of Engineering Minia University (1996 until now) for various projects inside and outside the governorate.
- 6. Conducting external inspections to receive the roads of Minia University and conducting field tests related to that (1996 until now).
- 7. Participate with members of the department in inspections and preparation of technical reports on the condition of facilities, commissioned by the advisory unit for governmental and non-governmental agencies in Minia Governorate.
- 8. Participate in designing and supervising the implementation of the residential complex for the Minia Governorate in the Shalabi area, west of the Faculty of Arts, Minia Governorate.
- 9. Supervising an urban road in the city of Al-Fashn, Beni Suef.
- 10. Conducting a traffic study for the Faculty of Medicine Hospital, Nahda University, New Beni Suef.

- 11. Conduct a traffic study for the industrial zone in New Beni Suef.
- 12. Field density measurements for road layers in Industrial El-Minia City.
- 13. California Bearing Ratio and compaction tests for subbase and base course.
- 14. Laboratory measurements for asphalt material quality.
- 15. Design of asphalt concrete mix.

# The work of university development in the field of specialization in particular and civil engineering in general:

- 1) Participation in the preparation and establishment of the highway and airport laboratory.
- 2) Participation in the preparation and establishment of a computer lab
- 3) Writing a proposal and specifications for equipment of the highway engineering laboratory.
- 4) Develop an advisory system for students of the Department of Civil Engineering
- 5) Prepare the student guide and issue the periodic bulletin of education.
- 6) Develop a policy manual for the Department of Civil Engineering, which includes:
  - Policy for prioritization and decision-making
  - A system to develop the vision and mission of the department.
  - Policy for student evaluation system.
  - Policy to establish a student support system.
  - Policy for the selection of external arbitrators to evaluate the various components of the program
  - Complaints system
  - System for analyzing students' opinions (feedback)
  - System for developing the research plan of the program
  - System for graduation projects.