



## Curriculum Vitae for Faculty Members

1-Personal Details					
Position	Professor (full)	Name (English)	Mahmoud Enieb		
		Name (Arabic)	محمود عنيب		
General Field	Civil Engineering				
Specialization field	Highways and Traffic Engineering				
Number of Years of experience	33 years				
City, Country	Assiut, Egypt	Postal Code	71516		
Tel & WhatsApp	+201002878440				
Fax No.	+20882080553 (Faculty of Engineering)				
E-mail (1)	<a href="mailto:m.enieb@aun.edu.eg">m.enieb@aun.edu.eg</a>				
Affiliation	Assiut University	Faculty:	Engineering	Department	Civil Engineering
Temporary affiliation	Al-Ahliyya Amman Uni. Jordan From 27/9/2017 till 31/8/2021	Faculty:	Engineering	Department	Civil Eng. / Intelligent Transportation System (ITS)
Nationality	Egypt	Date of Birth		Country of Birth	Qena, Egypt
Languages	Arabic/English/German/French				
Assiut Web English	<a href="https://www.aun.edu.eg/engineering/mahmoud-enieb-osman-enieb">https://www.aun.edu.eg/engineering/mahmoud-enieb-osman-enieb</a>				
Assiut Web Arabic	<a href="http://www.aun.edu.eg/engineering/ar/user/6762">http://www.aun.edu.eg/engineering/ar/user/6762</a>				
Google Scholar	<a href="https://scholar.google.com.eg/citations?user=a54ZW7AAAAAJ&amp;hl=en">https://scholar.google.com.eg/citations?user=a54ZW7AAAAAJ&amp;hl=en</a>				
Research gate	<a href="https://www.researchgate.net/profile/Mahmoud_Enieb/stats">https://www.researchgate.net/profile/Mahmoud_Enieb/stats</a>				
Web of Science	<a href="https://www.webofscience.com/wos/author/record/1044159">https://www.webofscience.com/wos/author/record/1044159</a>				
Orcid	<a href="https://orcid.org/0000-0001-5509-0849">https://orcid.org/0000-0001-5509-0849</a>				
Scopus ID	<a href="https://www.scopus.com/authid/detail.uri?authorId=56595289300">https://www.scopus.com/authid/detail.uri?authorId=56595289300</a>				
h-index	12 (Google Scholar), 12 (Research Gate), 11 (Scopus), 8 (WOS)				
2-Education					
Highest Degree	Doctoral degree in technical sciences	Date of Graduation	2004	Year Obtained	4 years
University	University of Innsbruck	Uni. world Rank	301	Country	Austria
Major field	Civil Engineering	Specialization field	Highways Engineering		
Confirmation of academic success (Courses exams)					
1. German as a foreign language, 6 hrs. 2. Statistics in Transportation, 3 hrs. 3. Road planning, 4 hrs. 4. Finite Element I, 4 hrs. 5. Finite Element II, 3 hrs. 6. Programming language, 1.5 hrs. 7. Software Engineering, 2 hrs. 8. Structural analysis 2, 2 hrs.					



Master's Degree	M.SC	Date of Graduation	1994	Year Obtained	3 years
University	Assiut University	Country	Egypt		
Major field	Civil Engineering	Specialization field Average grade	Highway Engineering Very good 82.66%		
Confirmation of academic success (Courses exams)					
<ol style="list-style-type: none"> <li>1. Planning and design of highways and airports, 4 hrs/week from (Nov. 1991 to June 1992) <math>\approx</math> 8 Credit hours</li> <li>2. Soil mechanics application, 2 hrs/week from (Nov. 1991 to June 1992) <math>\approx</math> 4 Credit hours</li> <li>3. Advanced theory of structures, 4 hrs/week from (Nov. 1991 to June 1992) <math>\approx</math> 8 Credit hours</li> </ol>					

Bachelor's degree	B.SC	Date of Graduation	1989	Year Obtained	5 years
University	Assiut University	Country	Egypt		
Major field	Civil Engineering	Average grade	Very good with honor's degree (81.56%) (The second )		
Confirmation of academic success (Courses exams)					
<ol style="list-style-type: none"> <li>1. 79 hrs, lectures from Oct. to May during Oct. 1984 to May 1989 <math>\approx</math> 158 Credit hours</li> <li>2. 75 hrs, Practical exercise and Labs. form Oct. to May during Oct. 1984 to May 1989 <math>\approx</math> 75 Credit hours</li> </ol>					

### 3-Academic Rank

v	Date Rank Awarded		Name of Organization	Country	Dates (from/to Month, Year)	
	Year	Month			From	To
Demonstrator	1991	4	Assiut University	Egypt	1991	1994
Assistant Lecture	1994	12	Assiut University	Egypt	1994	2004
Assistant Prof.	2004	3	Assiut University	Egypt	2004	2018
Assistant Prof.	2017	9	Al-Ahliyya Amman University	Jordan	2017	2018
Associate Prof.	2018	2	Al-Ahliyya Amman University	Jordan	2018	2021
Associate Prof.	2018	1	Assiut University	Egypt	2018	2023
Professor (full)	2023	2	Assiut University	Egypt	2023	now



4- Administrative Experience				
Position/Post title	Name of Employer	Dates		Duties
		From	To	
		Year/Month	Year/Month	
Coordinator	Faculty of Engineering, Assiut University	4/2006	7/2014	Coordinator of the Civil Engineering Department in the High Education Quality Assurance Project for getting on a Certificate of Quality Assurance and Accreditation, 2011.
Academic advisor of Scientific Society, Engineering for life	Faculty of Engineering, Assiut University	6/2014	9/2017	Student training, support of Student participation projects
Head of the Highway and Transportation Focus Group	Faculty of Engineering, Al-Ahliyya Amman University, Jordan	9/2018	8/2021	Mapping of Core and Elective Transportation courses, to Student Outcomes (SOs). Mapping of Course Learning Outcomes to SOs. Connect the relationship of SOs to Program Educational Objectives (PEOs). Consistency of the PEOs with the Mission of the Institution. Preparing and getting on ABET accreditation, Aug. 2021, for Civile Eng. Dept., Al-Ahliyya Amman University, Jordan.
<b>***Director of highways and airports laboratory, Civil Engineering Dept.</b>	Faculty of Engineering, Assiut University	10/2021	Up till now	Updating and developing laboratory equipment to keep pace with global research, managing technicians and staff in the laboratory, supervising master's and doctoral students, and participating in conducting international and local research***.



Road and traffic consultant for Assiut Governorate	Faculty of Engineering, Assiut University	10/2021	Up till now	Participation in the committees for receiving road and traffic works and setting the strategic plan for paving roads in Assiut Governorate
Member of the Postgraduate Regulations Modernization Committee	Faculty of Engineering, Assiut University	3/2022	Up till now	Updating and developing a new bylaw of postgraduate studies according to the reference framework for graduate studies 2020 issued by the engineering sector, Egypt.
Coordinator of the committee preparing the regulations for the Master's program in Intelligent Transportation Systems (ITS)	Faculty of Engineering, Assiut University	3/2022	Up till now	Preparing the bylaw of the new Master's program in Intelligent Transportation Systems by the framework of reference for postgraduate studies 2020 issued by the engineering sector, Egypt.
Member of the Committee for the Development of the Walkway of the People of Egypt in Sadfa, Assiut Governorate	Faculty of Engineering, Assiut University	4/2023	Up till now	Design and supervise the Development of the Walkway of the People of Egypt in Sadfa, Assiut Governorate
Coordinator of scientific seminars in the Civil Engineering Department	Faculty of Engineering, Assiut University	2/2023	Up till now	Coordinating the holding of scientific seminars, preparing reports on them, and recommending the issuance of certificates of attendance at the seminars.
Member of the doctoral admission examination committee	Faculty of Engineering, Assiut University	9/2023	8/2024	Member of the committee preparing the written and oral exams for doctoral students in public works engineering.
Candidate for Dean of the	Faculty of Engineering,	2/2024		The application file for the position of Dean of the Faculty was submitted on



Faculty of Engineering	Assiut University			January 13, 2024, and the presentation of the development of the Faculty of Engineering was presented before the Dean of the Faculty of Engineering nomination committee headed by Prof. Dr. Ahmed Al-Minshawy, President of the University, on February 21, 2024.
Candidate for Director of the Engineering Program	Benha National University, Obour, Egypt.	4/2024		The application file for the position of Director of the Engineering Program was submitted on January 27, 2024,, and a presentation on developing the Engineering Program was presented before the Engineering Program Director Nomination Committee headed by Prof. Dr. Shaaban Taha, Chairman of the Committee, on April 24, 2024.
Member of the permanent committee of arbitrators for the promotion of professors and associate professors	Supreme Council of Universities, Egypt.	4/2024	Up till now	Arbitration of files for applicants for promotion to the position of professor and associate professor specializing in highway and traffic engineering - Public Works Engineering Committee - Supreme Council of Universities, EG.

**\*\*\* Since October 2021, I have been serving as the Director of the Highways and Airports Laboratory in the Civil Engineering Department at Assiut University.** During this period, the following research papers and theses have been conducted:

#### Research Published in International Journals (Scopus)

Year	Title	Journal	(Main/ Co-Author)	Volume/ Number/Pages
2024	Modeling and design optimization of the performance of stone matrix asphalt mixtures containing low-density	Construction and Building Materials	Co-Author	Vol. 446, October 2024, 138037, <a href="https://doi.org/10.1016/j.conbuildmat.2024.138037">https://doi.org/10.1016/j.conbuildmat.2024.138037</a>



	polyethylene and waste engine oil using the response surface methodology			
2024	Prediction and Optimization of Asphalt Mixtures Performance Containing Reclaimed Asphalt Pavement Materials and Warm Mix Agents Using Response Surface Methodology	International Journal of Pavement Research and Technology	Co-Author	Aug. 2024, pp. (1-17) <a href="https://doi.org/10.1007/s42947-024-00464-6">https://doi.org/10.1007/s42947-024-00464-6</a>
2023	Performance grade of asphalt binder modified with waste plastic and rubber	AIP Conference Proceedings	Co-Author	Vol. 2775 (1), 060017, July 2023, doi: <a href="https://doi.org/10.1063/5.0161205">https://doi.org/10.1063/5.0161205</a>
2023	Experimental-numerical model of permanent deformation in asphalt paving mixtures modified with waste plastic and rubber	AIP Conference Proceedings	Co-Author	Vol. 2775 (1), 060015, July 2023, doi: <a href="https://doi.org/10.1063/5.0140884">https://doi.org/10.1063/5.0140884</a>
2023	Evaluation Of Physical-Rheological Properties of Nano Titanium Dioxide Modified Asphalt Binder and Rutting Resistance of Modified Mixture	International Journal of Pavement Research and Technology	Main	Vol. 16 (2), March 2023, pp. 285-303, DOI: <a href="https://doi.org/10.1007/s42947-021-00131-0">https://doi.org/10.1007/s42947-021-00131-0</a>
2023	Effect of Warm Mix Asphalt (WMA) Antistripping Agent on Performance of Waste Engine Oil-Rejuvenated Asphalt Binders and Mixtures	Sustainability	Co-Author	15 (4), Feb. 2023 (3807 ), <a href="https://doi.org/10.3390/su15043807">https://doi.org/10.3390/su15043807</a>
2022	The effect of glass fibers and waste engine oil on the properties of RAP asphalt concretes	International Journal of Pavement Engineering	Co-Author	23 (14), Dec. 2022, pp. 5227-5238, DOI: <a href="https://doi.org/10.1080/10298436.2021.2001815">https://doi.org/10.1080/10298436.2021.2001815</a>
2022	Assessment of risk factors causing delays in road construction in Egypt	IOP Conference Series: Materials Science and Engineering	Co-Author	1269 (Nov. 2022) 012007, <a href="https://doi.org/10.1088/1757-899X/1269/1/012007">https://doi.org/10.1088/1757-899X/1269/1/012007</a>
2022	Rejuvenation of aged asphalt binders by waste engine oil and SBS blend: Physical, chemical, and rheological properties of	Construction and Building Materials	Co-Author	346, Sep. 2022 (128441), <a href="https://doi.org/10.1016/j.conbuildmat.2022.128441">https://doi.org/10.1016/j.conbuildmat.2022.128441</a>



	binders and mechanical evaluations of mixtures			
2022	Synergistic effect of SBS copolymers and aromatic oil on the characteristics of asphalt binders and mixtures containing reclaimed asphalt pavement	Construction and Building Materials	Co-Author	327, Apr. 2022 (127026), <a href="https://doi.org/10.1016/j.conbuildmat.2022.127026">https://doi.org/10.1016/j.conbuildmat.2022.127026</a>
2022	Waste nanomaterial-modified asphalt for economic and sustainable pavement construction	Innovative Infrastructure Solutions	Co-Author	Volume 7, No 144, Apr. 2022, <a href="https://doi.org/10.1007/s41062-021-00737-0">https://doi.org/10.1007/s41062-021-00737-0</a>

### Research Published in Local Journals

2022	Effects of waste engine oil and crumb rubber rejuvenator on the performance of 100% RAP binder	Journal of Innovative Transportation	Co-Author	Volume 3, Issue 1, 2022, pp. 8-15, DOI: <a href="https://doi.org/10.53635/jit.1072888">https://doi.org/10.53635/jit.1072888</a>
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### Papers Published in Refereed/Accredited Conference Proceedings

Year	Title	Conference	(Main/Co-Author)	Pages
2023	Using reclaimed asphalt pavement for sustainable development of highway construction: Article review	3rd International Conference on Civil Engineering: Development & Sustainability (ICCE23, Assiut University), Hurghada, Egypt, 24-27 October, 2023.	Main	1036-ICCE23, page 242 – 265. <a href="https://conferences.ekb.edu/article_1971.html">https://conferences.ekb.edu/article_1971.html</a>
2023	Performance grade of asphalt binder modified with waste plastic and rubber	The fourth International Conf. on Civil and Environmental Eng. Technologies 11 12-May 2022 Kufa, Iraq.	Co-Author	AIP Conference Proceedings: Vol. 2775 (1), 060017, July 2023, doi: <a href="https://doi.org/10.1063/5.0161205">https://doi.org/10.1063/5.0161205</a>
2023	Experimental-numerical model of permanent deformation in asphalt paving mixtures modified with waste plastic and rubber	The fourth International Conf. on Civil and Environmental Eng. Technologies 11 12-May 2022 Kufa, Iraq.	Co-Author	AIP Conference Proceedings: Vol. 2775 (1), 060015, July 2023, doi: <a href="https://doi.org/10.1063/5.0140884">https://doi.org/10.1063/5.0140884</a>
2022	Assessment of risk factors causing delays in road construction in Egypt	36 <sup>th</sup> Eg-MRS International Conference, 24-25 September 2022, Cairo, Egypt	Co-Author	1269 (Nov. 2022) 012007, <a href="https://doi.org/10.1088/1757-899X/1269/1/012007">https://doi.org/10.1088/1757-899X/1269/1/012007</a>





<b>5- Academic Experience and national service</b>				
<b>Position/Post title</b>	<b>Name of Employer</b>	<b>Dates</b>		<b>Duties</b>
		<b>From</b>	<b>To</b>	
		<b>Month/Year</b>	<b>Month/Year</b>	
Soldier	Egyptian armed forces	1/1990	2/1991	A conscripted soldier in the Engineers Corps
Demonstrator	Assiut University	4/1991	12/1994	Researcher and helping in teaching undergraduate student
Assistant Lecture	Assiut University	12/1994	3/2004	Researcher and helping in teaching undergraduate student
Assistant Prof.	Assiut University	3/2004	1/2018	Researcher and teaching undergraduate and postgraduate student
Visiting professor	University of Manitoba, Winnipeg, Canada	6/6/2012	31/7/2012	To share in the research activities of the pavement research group.
Assistant Prof.	Al-Ahliyya Amman University	9/2017	1/2018	Researcher and teaching undergraduate student
Associate Prof.	Al-Ahliyya Amman University	2/2018	8/2021	Researcher and teaching undergraduate and postgraduate (Intelligent Transportation System (ITS)) students
Associate Prof.	Assiut Uni	1/2018	31/8/2021	On leave
Associate Prof.	Assiut Uni	1/9/2021	27/2/2023	Researcher and teaching undergraduate and postgraduate student
Professor (full)	Assiut Uni	28/2/2023	Up till now	Researcher and teaching undergraduate and postgraduate student





<b>5-1 Courses Taught (for Undergraduate students)</b>				
<b>Position/Post title</b>	<b>Name of Employer</b>	<b>Dates</b>		<b>Duties</b>
		<b>From</b>	<b>To</b>	
		<b>Year</b>	<b>Year</b>	
Demonstrator, Assistant Lecture	Assiut University	1991	2000	Helping in teaching courses of Highway Engineering, Traffic Planning and Transportation Eng., Railway Engineering, Surveying Engineering (Plane, Topographic, and Photogrammetric), B. Sc. Final year Project in Highway and Traffic Engineering, and Computer Utility in Structural analysis, Civil Engineering Department, Assiut University, Assiut, Egypt.
Assistance Professor	Assiut University	2004	2017	I have taught and examined the following undergraduate courses: Surveying Engineering (Plane, Topographic, and Photogrammetric) for 1st, and 2nd civil students, Soil and Foundation for 3rd civil students, Al-Azhar University, Branch Qena, Traffic Planning and Transportation Eng., Highway and Airport Engineering, Transport Networks Maintenance, highway and traffic engineering project, Planning and design of fundamental transportation systems, Supervising the bachelor's students in the graduation project highway and traffic engineering.
Assistance and Associate Professor	Al-Ahlyyia Amman University	20017	2021	I have taught and examined the following undergraduate courses: Pavement Design and Airport Engineering, Pavement Design and Airport Engineering Lab, Selected topics in Civil Engineering, Highway and Traffic Engineering Lab, Highway Geometric and Railway Engineering, Pavement Maintenance and Rehabilitation.
Associate Professor	Assiut University	2021	2023	I have taught and examined the following undergraduate courses: Highway and Airport Engineering, Maintenance and Rehabilitation of Transportation Networks, Highways, and Airport Engineering Projects.
Professor (full)	Assiut University	2023	Till now	I have taught and examined the following undergraduate courses: Highway and Airport Engineering, Maintenance and Rehabilitation of Transportation Networks, and Highways and Airport Engineering Project at Assiut University. Railway Engineering & Highways and Airport



				Engineering Project for B.Sc. Student of Higher Institute of Engineering in Al-Kuthur, Suhag, Egypt.
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### 5-2 Courses Taught (for Postgraduate students)

Course Name	Degree	Field of research	Organization
Advanced highway engineering	M.Sc.	Civil Engineering	Assiut University
Computer Applications in Highway Engineering	M.Sc.	Civil Engineering	Assiut University
Planning and design of Highway and Airports engineering	M.Sc.	Civil Engineering	Assiut University
Advanced railway engineering, Embankment strengthening, Pavement materials, and tests	M.Sc.	Civil Engineering	Assiut University
Traffic safety	M.Sc.	Intelligent transportation system (ITS)	Al-Ahlyyia Amman University
Research Methodologies	M.Sc.		Al-Ahlyyia Amman University
Traffic flow theories and control	M.Sc.		Al-Ahlyyia Amman University
Strengthening of highway embankment, Pavement materials and tests, Computer applications in Highway Engineering	M.Sc.	Civil Engineering	Assiut University

### 5-3 E-Learning Courses Taught with Microsoft Team and Exam with MS Forms (for undergraduate & Postgraduate students)

Course Name	Degree	Department	Organization
Pavement design and airport engineering	B.Sc.	Civil Engineering	Al-Ahlyyia Amman University
Pavement design and airport engineering Lab	B.Sc.	Civil Engineering	Al-Ahlyyia Amman University
Pavement Maintenance and Rehabilitation	B.Sc.	Civil Engineering	Al-Ahlyyia Amman University
Road Traffic Flow and Control	M.Sc.	Intelligent Transportation System (ITS)	Al-Ahlyyia Amman University



<b>5-4 M.Sc. degrees under my Supervision</b>		
<b>Thesis Name</b>	<b>Student name</b>	<b>Organization</b>
Factors Affecting the Stability of Highway Side Slopes at Upper Egypt, M.Sc. thesis 2008, Faculty of Engineering, Assiut University, Assiut, Egypt	Dr. Mahmoud Fathy Mohamed Abdel-Qader	Assiut University
Evaluation and analysis of urban passengers transport modes operation performance suitable for medium size cities population, M.Sc. thesis 2011, Faculty of Engineering, Assiut University, Assiut, Egypt	Dr. Mahmoud Mohamed Ahmed Owais	Assiut University
Investigation in selecting the optimum runway orientation with special reference to Egyptian airports, M.Sc. thesis 2012, Faculty of Engineering, Assiut University, Assiut, Egypt	Eng. Ramy Nasr Abd El-Monem Mohamed	Assiut University
Evaluation of Cairo metro tunnel systems underneath the river Nile, M.Sc. thesis 2015, Faculty of Engineering, Assiut University, Assiut, Egypt	Eng. Abdo Shaban Ahmed	Assiut University
Road network extraction from Satellite images in Egypt, M.Sc. thesis 2020, Faculty of Engineering, Assiut University, Assiut, Egypt	Eng. Beshoy Nady Bastorous	Assiut University
Evaluation of Using Low-Cost Nanomaterials on Performance of Asphalt Binder and Mixture, M.Sc. thesis 2021, Faculty of Engineering, Assiut University, Assiut, Egypt	Eng. Ali Yossef	Assiut University
Investigating the Effect of Reflection Cracks on Asphalt Pavement Overlay Layer Using Finite Element Method, M.Sc. thesis under publication, Faculty of Engineering, Assiut University, Assiut, Egypt	Eng. Mohamed Gamal	Assiut University
Assessment of risk factors causing delays and cost overrun for road erection in Egypt, M.Sc. thesis under publication, Faculty of Engineering, Assiut University, Assiut, Egypt	Eng. Mina Majid	Assiut University

**5-5 Scientific theses that were peer-reviewed**



Thesis Name	Student name	Organization
Rheological Studies on Identification of New Rutting Parameters for Unmodified Bitumen, Ph. D. thesis, 2019.	Syed Mubashirhus-sain	National Institute of Technology
Pavement full-depth reclamation (FDR) technology, Master of Engineering, 2022.	Ahmed Mouner Kamal Abdalim	Assiut Universit
Design Consideration for Different Highway Vertical Curve Types, Master of Engineering, 2023.	Ahmed Saleh Mahmoud Hassan	Assiut University
The Effect of Using Full Depth Recycling (FDR) Technique of Asphalt Layers on Pavement Performance, Master of Engineering, 2024.	Ahmed Eid Ali Shafia	Assiut University
Impact of mineral filler type and content on asphalt concrete mixes performance, Master of Engineering, 2024.	Mahmoud Ahmed Mansour	Assiut University

6- Practical Training		
Course Title	Organization	Date
Communication Skills	Assiut University, Egypt	04/2005
Decision Making and Problem-solving	Assiut University, Egypt	05/2005
New Trends in Teaching	Assiut University, Egypt	07/2005
Special Topics in Teaching (Course and curriculum design)	Assiut University, Egypt	08/ 2005
Managerial Skills	Assiut University, Egypt	08/2005
Electronic Publishing Requirements	Assiut University, Egypt	08/ 2005
Teaching with Technology	Assiut University, Egypt	11/ 2006
Quality Assurance and Accreditation	Assiut University, Egypt	05/ 2007
Research Ethics	Sohag University, Egypt	07/2018
Effective Presentation	Sohag University, Egypt	08/2018
Advances in Asphaltic Materials التطورات في المواد الاسفلتية	Jordan University of Science and Technology, Jordan.	04/2019
Combating corruption and its definition	Sohag University, Egypt	6/2019
International Scientific Publishing	Luxor University, Egypt	01/2021



Examination and Student Assessment Systems	Luxor University, Egypt	02/2021
Analytical and creative thinking in teaching	Assiut University, Egypt	02/ 2022
Fundamentals of Digital Transformation (Introduction to Computer Networks)	Assiut University, Egypt	09/ 2022
Attending the training program to fill the position of faculty dean	Assiut University, Egypt	03/ 2023
Strategic planning: Faculties and Institutes of Higher Education	The National Authority for Quality Assurance and Accreditation of Education "NAQAAE"	06/ 2024
Self-Evaluation: Faculties and Institutes of Higher Education	The National Authority for Quality Assurance and Accreditation of Education "NAQAAE"	06/ 2024
Program/Course Specifications and Assessment of ILOs: Faculties and Institutes of Higher Education	The National Authority for Quality Assurance and Accreditation of Education "NAQAAE"	07/ 2024
Teaching Strategies and Effective Learning: Faculties and Institutes of Higher Education	The National Authority for Quality Assurance and Accreditation of Education "NAQAAE"	07/ 2024
Exams and Students' Assessment Systems: Faculties and Institutes of Higher Education	The National Authority for Quality Assurance and Accreditation of Education "NAQAAE"	07/ 2024
External Review: Faculties and Institutes of Higher Education	The National Authority for Quality Assurance and Accreditation of Education "NAQAAE"	07/ 2024

### 6-1 Workshop

Course Title	Organization	Date
Letters estimation from Marks	Al-Ahlyyia Amman Uni., Jordan.	9/2018
Designing courses and Assessing Learning for Critical Thinking	Al-Ahlyyia Amman Uni., Jordan.	12/2018
Evaluating some international practices to improve road safety	Al-Ahlyyia Amman Uni., Jordan.	12/2018
Rubrics Material Assessment System	Al-Ahlyyia Amman Uni., Jordan.	12/2018
Intelligent Transportation Systems Issues and Challenges	Al-Ahlyyia Amman Uni., Jordan.	2/2019
The use of nanotechnology in Urban roads, and Rural roads.	Al-Ahlyyia Amman Uni., Jordan.	3/2019



International Day of the Faculty of Engineering, "Entrepreneurship and Innovation in Engineering"	Al-Ahlyyia Amman Uni., Jordan.	3/2019
ABET Requirements	Al-Ahlyyia Amman Uni., Jordan.	12/2019
Training on MS TEAM	Al-Ahlyyia Amman Uni., Jordan.	12, 14/3/2020
Training on MS FORM	Al-Ahlyyia Amman Uni., Jordan.	9/5/2020
SUPERPAVE System	Engineering Syndicate of Jordanian / Civil Engineering Division	12, 19/5/2020
Training on MS TEAM	Al-Ahlyyia Amman University	4/7/2020
Webinar: How to Select the Right Journal to Submit your Manuscript	National Research Center, Cairo, Egypt.	Sept. 10 <sup>th</sup> , 16 <sup>th</sup> 2020
Webinar: Microsoft Teams program in the educational process	The Egyptian University Network, in collaboration with Microsoft	Sept. 14 <sup>th</sup> , 15 <sup>th</sup> 2020
Webinar: Coronavirus Disease (COVID 19) and Possibility of Second Pandemic in the world.	National Research Center, Cairo, Egypt.	Sept. 22 <sup>nd</sup> 2020
Webinar: Microsoft Teams program in the educational process	The Egyptian University Network, in collaboration with Microsoft	Sept. 21 <sup>st</sup> , 22 <sup>nd</sup> 2020
Webinar: Tips and Tricks to Write and Apply a Successful Research Proposal	National Research Center, Cairo, Egypt.	October 4 <sup>th</sup> - 5 <sup>th</sup> 2020
Webinar: How to write a Wining Grant Proposal?	National Research Center, Cairo, Egypt.	October 4 <sup>th</sup> - 5 <sup>th</sup> 2020
Webinar: Enhance your Research with Elsevier: Discover the Solutions	National Research Center, Cairo, Egypt.	October 11 <sup>th</sup> 2020
Webinar: The Bylaw of Promoting Academic Staff – 13 <sup>th</sup> Round (2019-2022) – Part 1	Scientific Research Development Unit, Tnata University, Egypt.	October 11 <sup>th</sup> , 2020
Webinar: Good Lab Practice (GLP) Requirements	National Research Center, Cairo, Egypt.	October 13 <sup>th</sup> - 14 <sup>th</sup> 2020
Webinar: Terms and concepts towards scientific research marketing	National Research Center, Cairo, Egypt.	October 21 <sup>st</sup> - 22 <sup>nd</sup> 2020
Webinar: Enhance your Research with Elsevier: How Mendeley can Enhance your research?	National Research Center, Cairo, Egypt.	October 25 <sup>th</sup> 2020
Webinar: COVID-19 Knowledge Vs Protection. كوفيد-19 بين المعرفة و الوقاية	National Research Center, Cairo, Egypt.	October 26 <sup>th</sup> 2020
Webinar: Protective Face Mask for Covid-19 an Engineering concept	National Research Center, Cairo, Egypt.	October 27 <sup>th</sup> 2020
Webinar: شرح لائحة الدورة الثالثة عشر لترقية اعضاء هيئة التدريس الجزء الاول والثاني والمناقشة الحرة	Research Support Center, Helwan University, Egypt.	October 17 <sup>th</sup> , 24 <sup>th</sup> , 31 <sup>st</sup> 2020





Webinar: How to Write a Scientific Paper? Part 1 & Part 2 & Part 3.	National Research Center, Cairo, Egypt.	Sept. 29 <sup>th</sup> & Oct. 6 <sup>th</sup> & Nov. 1 <sup>st</sup> 2020
Webinar: Enhance your Research with Elsevier: Selecting a Journal for published & Open Access Models	National Research Center, Cairo, Egypt.	November 5 <sup>th</sup> 2020
Webinar: Impact of Nutrition in Enhancement of Immunity During and Post COVID-19	National Research Center, Cairo, Egypt.	November 8 <sup>th</sup> 2020
Webinar: Food and it's Safety in After Corona	National Research Center, Cairo, Egypt.	November 10 <sup>th</sup> 2020
Webinar: The Era of (COVID-19) & Food Industry Impact & lessons	National Research Center, Cairo, Egypt.	November 12 <sup>th</sup> 2020
Webinar: Step-by-step on How to Prepare a Successful Paper - Jordan	AD Webinars, Springer Nature	November 18 <sup>th</sup> 2020
Webinar: Insights into Sustainability Using Web of Science Curated Data Sources	National Research Center, Cairo, Egypt.	November 19 <sup>th</sup> 2020
Webinar: STDF Funding Grants & How to Match Call Guidelines Requirements	National Research Center, Cairo, Egypt.	November 23 <sup>rd</sup> 2020
Webinar: Best Practices for peer Review and Authorship Workshop in Cooperation with Web of Science.	Egyptian Knowledge Bank (EKB), Egypt.	November 25 <sup>th</sup> 2020
Webinar: Enhance your Research with Elsevier: Discover Research Metrics on Scopus & Updated CiteScore & Quartiles	National Research Center, Cairo, Egypt.	November 26 <sup>th</sup> 2020
Webinar: Enhance your Research with Elsevier: Funding Institutional - Onboarding	National Research Center, Cairo, Egypt.	December 3 <sup>rd</sup> 2020
Webinar: How to Design a Scientific Poster?	Research Support Center, Helwan University, Egypt.	December 5 <sup>th</sup> 2020
Webinar: Nature Research Academies Workshop Logical Manuscript Structure	Nature Research Academies with collaboration of Egyptian Knowledge Bank.	December 6 <sup>th</sup> 2020
Webinar: Nature Research Academies Workshop Journal Editor 1	Nature Research Academies with collaboration of Egyptian Knowledge Bank.	December 6 <sup>th</sup> 2020
Webinar: Scientific and Academic Cooperation Funding Opportunities (Embassy of France in Egypt – Institute Francais d'Egypt)	National Research Center, Cairo, Egypt.	December 10 <sup>th</sup> 2020
Webinar: Academic Social Networks and Research Ranking	Research Support Center, Helwan University, Egypt.	December 12 <sup>th</sup> 2020
Webinar: Enhance your Research with Elsevier: How Elsevier support Engineering Research	National Research Center, Cairo, Egypt.	December 13 <sup>th</sup> 2020





Webinar: Essential Academic Documents to Ensure Career Success	LetPub Learning Nexus.	December 15 <sup>th</sup> 2020
Webinar: Professional Writing of Grant Proposals “Tricks and Tips”	National Research Center, Cairo, Egypt.	December 17 <sup>th</sup> 2020
Webinar: Competency Based Learning: Planning, implementation, and accreditation	Egyptian Team of Higher Education Reform Experts, the National Erasmus+ Office - Egypt and SPHERE	December 17 <sup>th</sup> 2020
Webinar: Sound care for faculty members at Al-Ahlyia Amman University	Al-Ahlyia Amman Uni., Jordan.	December 17 <sup>th</sup> 2020
Webinar: SWOT analysis	Al-Ahlyia Amman Uni., Jordan.	December 18 <sup>th</sup> 2020
Webinar: What clinicians should know about statistics? (How to incorporate statistics in your research)	Research Support Center, Helwan University, Egypt.	December 19 <sup>th</sup> 2020
Webinar: Role of the Central Laboratories Network and Centers of Excellence at the National Research Centre to Provide Emerging Technologies to the Scientific Society.	Research Support Center, Helwan University, Egypt.	December 20 <sup>th</sup> -22 <sup>nd</sup> 2020
Webinar: Enhance your Research with Elsevier: Author Workshop: How to Publish an eBook.	National Research Center, Cairo, Egypt.	December 22 <sup>nd</sup> 2020
Webinar: Research Metrics Tracking & Measuring the Impact of your Research	Research Support Center, Helwan University, Egypt.	December 26 <sup>th</sup> 2020
Webinar: Enhance your Research with Elsevier SciVal	National Research Center, Cairo, Egypt.	December 31 <sup>st</sup> 2020
Webinar: Introduction to SPSS	Al-Ahlyia Amman Uni., Jordan.	Jan 2 <sup>nd</sup> 2021
Do Research with Confidence Using Web of Science Core Collection	National Research Center, Cairo, Egypt.	Jan 12 <sup>nd</sup> 2021
Webinar: Enhance your Research with Elsevier: How to Improve R&D Productivity with Reaxys?	National Research Center, Cairo, Egypt.	Jan 18 <sup>th</sup> 2021
Webinar: Guide to Publishing in Top-Tier International Journals	LetPub, Learning Nexus	Jan 22 <sup>nd</sup> 2021
Webinar: Enhance your Research with Elsevier: “Before Hitting Submit: Practical Tips for Authors”	National Research Center, Cairo, Egypt.	Jan 24 <sup>th</sup> 2021
Webinar: Effect of Asphalt Grade and Polymer Type (SBS and EE-2) on Produced PMB and Asphalt Concrete Mix Properties	Al-Ahlyia Amman Uni., Jordan.	Jan 26 <sup>th</sup> 2021
Webinar: الإحصاء في العلوم الإنسانية والمجتمعية	Research Support Center, Helwan University, Egypt.	Jan. 30 <sup>th</sup> 2020
Webinar: Enhance your Research with Elsevier: “Making the Most out of Author Profiles on Scopus”	National Research Center, Cairo, Egypt.	Jan 31 <sup>st</sup> 2021



Webinar: Effective Post-submission Publishing Strategies in Collaboration with the EKB"	Nature Research Academies with collaboration of Egyptian Knowledge Bank.	Jan 31 <sup>st</sup> 2021
Webinar: Clinical Research Methodology with the EKB"	Nature Research Academies with collaboration of Egyptian Knowledge Bank.	Feb 1 <sup>st</sup> 2021
Webinar: Manage Your Cited References in a Glance Using EndNote Online	Clarivate-NRC (National Research Center) Webinar series, Cairo, Egypt.	Feb 1 <sup>st</sup> 2021
Webinar: Completed every module within Certified Peer Reviewer Course	Researcher Academy, Elsevier	Feb 2 <sup>nd</sup> , 2021
Webinar: Completed every module within Becoming a peer reviewer	Researcher Academy, Elsevier	Feb 3 <sup>rd</sup> 2021
Webinar: Quality in Research (Publication Strategies and approaches)	National Research Center, Cairo, Egypt.	Feb 3 <sup>rd</sup> 2021
Webinar: Completed the following module: 10 tips for writing a truly terrible review	Researcher Academy, Elsevier	Feb 3 <sup>rd</sup> 2021
Webinar: Completed the following module: 1.1 What is peer review? Why peer review?	Researcher Academy, Elsevier	Feb 1 <sup>st</sup> 2021
Webinar: Completed the following module: 1.2 Models of peer review	Researcher Academy, Elsevier	Feb 1 <sup>st</sup> 2021
Webinar: Completed the following module:1.3 Typical-peer-review-process	Researcher Academy, Elsevier	Feb 1 <sup>st</sup> 2021
Webinar: Completed the following module:1.4 How to get involved	Researcher Academy, Elsevier	Feb 1 <sup>st</sup> 2021
Webinar: Completed the following module:2.0 Just got a review invite, what's next?	Researcher Academy, Elsevier	Feb 1 <sup>st</sup> 2021
Webinar: Completed the following module:3.1 How to write a helpful peer review report	Researcher Academy, Elsevier	Feb 1 <sup>st</sup> 2021
Webinar: Completed the following module:3.2 The comments to editors and decision recommendations	Researcher Academy, Elsevier	Feb 1 <sup>st</sup> 2021
Webinar: Completed the following module:3.3 How to peer review article	Researcher Academy, Elsevier	Feb 1 <sup>st</sup> 2021
Webinar: Completed the following module:4.0 What next?	Researcher Academy, Elsevier	Feb 1 <sup>st</sup> 2021
Webinar: Completed the following module:3.3 How to peer review article	Researcher Academy, Elsevier	Feb 1 <sup>st</sup> 2021
Webinar: Completed the following module: Introduction of the certified peer reviewer course	Researcher Academy, Elsevier	Feb 2 <sup>nd</sup> 2021
Webinar: Completed the following module: Certified peer reviewer course assessment	Researcher Academy, Elsevier	Feb 2 <sup>nd</sup> 2021
Webinar: Completed the following module: What to expect from certified peer reviewer course?	Researcher Academy, Elsevier	Feb 2 <sup>nd</sup> 2021
Webinar: Completed the following module: How to review a manuscript	Researcher Academy, Elsevier	Feb 3 <sup>rd</sup> 2021



Webinar: Completed the following module: How to become a reviewer and what do editors expect?	Researcher Academy, Elsevier	Feb 3 <sup>rd</sup> 2021
Webinar: Completed the following module: How reviewers become editors	Researcher Academy, Elsevier	Feb 3 <sup>rd</sup> 2021
Webinar: Completed the following module: How to editors look at your paper?	Researcher Academy, Elsevier	Feb 4 <sup>th</sup> 2021
Webinar: Completed every module within Going through peer review	Researcher Academy, Elsevier	Feb 4 <sup>th</sup> 2021
Webinar: Completed the following module: How to respond to reviewers' comments	Researcher Academy, Elsevier	Feb 4 <sup>th</sup> 2021
Webinar: Completed the following module: Standing up for science	Researcher Academy, Elsevier	Feb 4 <sup>th</sup> 2021
Webinar: Professional Peer-review	National Research Center, Cairo, Egypt.	Feb 4 <sup>th</sup> 2021
Webinar: COVID-19 Reality, Challenges & Future	Al-Ahlyia Amman Uni., Jordan.	Feb 14-16 <sup>th</sup> 2021
Webinar: Journal Editor 1 – Ethics & Responsibilities and Strong Editorial Vision & Workflows	Nature Research Academies with collaboration of Egyptian Knowledge Bank.	Feb 22 <sup>nd</sup> 2021
Webinar: Journal Editor 2 – Positive author & reviewer experiences and journal promotion	Nature Research Academies with collaboration of Egyptian Knowledge Bank.	Feb 23 <sup>rd</sup> 2021
Webinar: Understanding Research Metrics: What Really Matters?	LetPub, Learning Nexus	Feb 24 <sup>th</sup> 2021
Webinar: الإحصاء التطبيقي في العلوم الإنسانية باستخدام برنامج SPSS	Research Support Center, Helwan University, Egypt.	Feb. 27 <sup>th</sup> 2020
Webinar: Benchmark and Analyze your research output using Incites B&A	National Research Center, Cairo, Egypt.	March 1 <sup>st</sup> 2021
Webinar: Innovation, IP and their importance to Scientific Research	National Research Center, Cairo, Egypt.	March 9 <sup>th</sup> 2021
Webinar: Elsevier-NRC Guide Course for Reviewers, Introduction to Peer Review and General Aspects	National Research Center, Cairo, Egypt.	March 17 <sup>th</sup> 2021
Webinar: Leveraging Your Scientific Society to Advance Your Career	LetPub, Learning Nexus	March 19 <sup>th</sup> 2021
Webinar: Mendeley Citation Manager & Academic Social Network	Research Support Center, Helwan University, Egypt.	March 20 <sup>th</sup> 2021
Webinar: Elsevier-NRC Guide Course for Reviewers, Initial Handling of a Manuscript & Essential Ethical Aspects	National Research Center, Cairo, Egypt.	March 22 <sup>nd</sup> 2021
Webinar: نظام إدارة التعلم Learning Management System وإنتاج المقررات الإلكترونية ذاتياً	المركز القومي للتعليم الإلكتروني بمركز الخدمات الإلكترونية والمعرفية بالمجلس الأعلى للجامعات ومكتب اليونسكو الإقليمي للعلوم في الدول العربية بالقاهرة واللجنة الوطنية لليونسكو	March 25 <sup>th</sup> 2021



Webinar: Elsevier-NRC Guide Course for Reviewers, Elsevier Resources & Training for Reviewers	National Research Center, Cairo, Egypt.	March 25 <sup>th</sup> 2021
Webinar: Scientific Manuscript Formatting Using MS Word	Research Support Center, Helwan University, Egypt.	March 27 <sup>th</sup> 2021
Webinar: Elsevier-NRC Guide Course for Reviewers, Core of Peer Review I	National Research Center, Cairo, Egypt.	March 29 <sup>th</sup> 2021
Webinar: Helping geo-scientists and Engineers everywhere discover	Researcher Academy, Elsevier at Egyptian Knowledge Bank	March 31 <sup>st</sup> 2021
Webinar: Elsevier-NRC Guide Course for Reviewers, Core of Peer Review II	National Research Center, Cairo, Egypt.	April 1 <sup>st</sup> 2021
Webinar: Reviewer Report & Decision	National Research Center, Cairo, Egypt.	April 5 <sup>th</sup> 2021
Webinar: Peer Review Insights from iScience Editors	Researcher Academy at National Research Center, Cairo, Egypt.	April 7 <sup>th</sup> 2021
Webinar: A Guide to Effective Presentations at Academic Conferences	Research Support Center, Helwan University, Egypt.	April 10 <sup>th</sup> 2021
Webinar: Strategies for Identifying the Best Journal for Publication	LetPub, Learning Nexus	April 16 <sup>th</sup> 2021
Webinar: دور البحث العلمي في مواجهة الشائعات والاذخار المزيفة على شبكة الانترنت	Research Support Center, Helwan University, Egypt.	June 19 <sup>th</sup> 2021
Webinar: Statical analysis in Clinical research	Research Support Center, Helwan University, Egypt.	July 10 <sup>th</sup> , 2021
Webinar: Towards a deeper research impact, how can I increase the visibility of my published research?	National Research Center, Cairo, Egypt.	August 22 <sup>nd</sup> , 2021
Webinar: How to improve your research output -Expertise from our publishing department?	Researcher Academy & National Research Center, Cairo, Egypt.	August 25 <sup>th</sup> , 2021
Webinar: The benefits of being involved in a Special Issue: how to maximize the impact of your research	Hindawi and LetPub Learning Nexus	October 14 <sup>th</sup> , 2021
Webinar: Life after publication: How to promote your work for maximum impact	Researcher Academy, Egyptian Knowledge Bank, Cairo, Egypt.	December 2 <sup>nd</sup> , 2023.
Webinar: Staying up-to-date with your research topic	Researcher Academy, Egyptian Knowledge Bank, Cairo, Egypt.	December 3 <sup>rd</sup> , 2023.

### 7- Conferences

Date	Theme/Subjects	Conference Title	Location
24-27 October 2023.	Second Category: Transportation and Infrastructure Engineering	3 <sup>rd</sup> International Conference on Civil Engineering: Development & Sustainability (ICCE2023, Assiut University)	Hurghada, Egypt



11-12 May 2022	Traffic transportation and engineering	4 <sup>th</sup> International Conference on Civil and Environmental Engineering Technology (ICCEET 2022)	University of Kufa, Iraq
30 Oct. – 2 Nov., 2021	Third Category: Transportation and Infrastructure Engineering	2 <sup>nd</sup> International Conference on Civil Engineering: Recent Applications and Future Challenges (ICCE2021, Assiut University)	Hurghada, Egypt
4/2021	Traffic transportation and engineering	3 <sup>rd</sup> International Conference on Civil and Environmental Engineering Technology (ICCEET 2021)	University of Kufa, Iraq
12/2013	Infrastructure asset areas	International Journal of Pavements Conference	São Paulo, Brazil
7/2008	Quality assurance and accreditation	The first scientific conference of faculty of engineering	Al-Azhar University, Quena Branch,
5/2007	Engineering between theory and practice	The first conference of young researchers	Assiut University, Egypt
4/2007	Sustainable Development	The second conference of environmental engineering	Ain Shams University, Egypt
10/2003	Civil Engineering Science	First International conference of Civil Engineering Science,	Assiut University, Egypt

## 8-Publications

### 8-1 Research Published in International Journals (WOS)

Year	Title	Journal	(Main/Co-Author)	Volume/ Number/Pages
2024	Modeling and design optimization of the performance of stone matrix asphalt mixtures containing low-density polyethylene and waste engine oil using the response surface methodology	Construction and Building Materials	Co-Author	Vol. 446, October 2024, 138037, <a href="https://doi.org/10.1016/j.conbuildmat.2024.138037">https://doi.org/10.1016/j.conbuildmat.2024.138037</a>
2024	Prediction and Optimization of Asphalt Mixtures Performance Containing Reclaimed Asphalt Pavement Materials and Warm Mix Agents Using Response Surface Methodology	International Journal of Pavement Research and Technology	Co-Author	Aug. 2024, pp. (1-17) <a href="https://doi.org/10.1007/s42947-024-00464-6">https://doi.org/10.1007/s42947-024-00464-6</a>





2023	Evaluation Of Physical-Rheological Properties of Nano Titanium Dioxide Modified Asphalt Binder and Rutting Resistance of Modified Mixture	International Journal of Pavement Research and Technology	Main	Vol. 16 (2), March 2023, pp. 285-303, DOI: <a href="https://doi.org/10.1007/s42947-021-00131-0">https://doi.org/10.1007/s42947-021-00131-0</a>
2023	Effect of Warm Mix Asphalt (WMA) Antistripping Agent on Performance of Waste Engine Oil-Rejuvenated Asphalt Binders and Mixtures	Sustainability	Co-Author	15 (4), Feb. 2023 (3807 ), <a href="https://doi.org/10.3390/su15043807">https://doi.org/10.3390/su15043807</a>
2022	The effect of glass fibers and waste engine oil on the properties of RAP asphalt concretes	International Journal of Pavement Engineering	Co-Author	23 (14), Dec. 2022, pp. 5227-5238, DOI: <a href="https://doi.org/10.1080/10298436.2021.2001815">https://doi.org/10.1080/10298436.2021.2001815</a>
2022	Rejuvenation of aged asphalt binders by waste engine oil and SBS blend: Physical, chemical, and rheological properties of binders and mechanical evaluations of mixtures	Construction and Building Materials	Co-Author	346, Sep. 2022 (128441), <a href="https://doi.org/10.1016/j.conbuildmat.2022.128441">https://doi.org/10.1016/j.conbuildmat.2022.128441</a>
2022	Synergistic effect of SBS copolymers and aromatic oil on the characteristics of asphalt binders and mixtures containing reclaimed asphalt pavement	Construction and Building Materials	Co-Author	327, Apr. 2022 (127026), <a href="https://doi.org/10.1016/j.conbuildmat.2022.127026">https://doi.org/10.1016/j.conbuildmat.2022.127026</a>
2022	Waste nanomaterial-modified asphalt for economic and sustainable pavement construction	Innovative Infrastructure Solutions	Co-Author	Volume 7, No 144, Apr. 2022, <a href="https://doi.org/10.1007/s41062-021-00737-0">https://doi.org/10.1007/s41062-021-00737-0</a>
2021	Study on the Effects of Nano Sb2O3 on Early and Long-Term Aging Behaviour of Bitumen and Asphalt Mixtures	Ain Shams Engineering Journal	Co-Author	Vol. 12, Issue 4, Dec. 2021, pp. 3531-3542, <a href="https://doi.org/10.1016/j.asej.2021.02.041">https://doi.org/10.1016/j.asej.2021.02.041</a>
2021	Short- and Long-Term Properties of Glass Fiber Reinforced Asphalt Mixtures	International Journal of Pavement Engineering,	Main	Vol. 22, Issue 1, Jan. 2021, pp 64-76, DOI: <a href="https://doi.org/10.1080/10298436.2019.1577421">https://doi.org/10.1080/10298436.2019.1577421</a>
2020	Effect of Asphalt Grade and Polymer Type (SBS and EE-2) on Produced PMB's and Asphalt Concrete Mixes Properties	Journal of Materials in Civil Engineering, ASCE	Main	Vol. 32, Issue 12, Dec. 2020, 04020385, DOI: <a href="https://doi.org/10.1061/(ASCE)MT.1943-5533.0003479">https://doi.org/10.1061/(ASCE)MT.1943-5533.0003479</a>



2020	Evaluating Mechanical Properties of Bitumen and Hot Mix Asphalt Modified with Nano Ferric Oxide	Construction and Building Materials	Co-Author	234, Feb. 2020, pp. 1-13, DOI: <a href="https://doi.org/10.1016/j.conbuildmat.2019.117381">https://doi.org/10.1016/j.conbuildmat.2019.117381</a>
2019	Influence of aging on properties of polymer-modified asphalt	Construction and Building Materials	Co-Author	196, Jan. 2019, pp. 54-65, DOI: <a href="https://doi.org/10.1016/j.conbuildmat.2018.11.105">https://doi.org/10.1016/j.conbuildmat.2018.11.105</a>
2016	A Conditioning Method to Evaluate Moisture Influence on the Durability of Asphalt Mixture Materials	Canadian Journal of Civil Engineering	Co-Author	Vol. 43, No. 11, Nov. 2016, pp. 943-948, DOI: <a href="https://doi.org/10.1139/cjce-2016-0153">https://doi.org/10.1139/cjce-2016-0153</a>
2015	Twin Tunnels Configuration of the Greater Cairo Metro Line No. 4	Computers and Geotechnics	Co-Author	Vol. 68, July 2015, pp. 66-77, DOI: <a href="https://doi.org/10.1016/j.compgeo.2015.03.015">https://doi.org/10.1016/j.compgeo.2015.03.015</a>

**8-2 Research Published in International Journals (Scopus)**

Year	Title	Journal	(Main/Co-Author)	Volume/ Number/Pages
2024	Modeling and design optimization of the performance of stone matrix asphalt mixtures containing low-density polyethylene and waste engine oil using the response surface methodology	Construction and Building Materials	Co-Author	Vol. 446, October 2024, 138037, <a href="https://doi.org/10.1016/j.conbuildmat.2024.138037">https://doi.org/10.1016/j.conbuildmat.2024.138037</a>
2024	Prediction and Optimization of Asphalt Mixtures Performance Containing Reclaimed Asphalt Pavement Materials and Warm Mix Agents Using Response Surface Methodology	International Journal of Pavement Research and Technology	Co-Author	Aug. 2024, pp. (1-17) <a href="https://doi.org/10.1007/s42947-024-00464-6">https://doi.org/10.1007/s42947-024-00464-6</a>
2023	Performance grade of asphalt binder modified	AIP Conference Proceedings	Co-Author	Vol. 2775 (1), 060017, July 2023, doi: <a href="https://doi.org/10.1063/5.0161205">https://doi.org/10.1063/5.0161205</a>





	with waste plastic and rubber			
2023	Experimental-numerical model of permanent deformation in asphalt paving mixtures modified with waste plastic and rubber	AIP Conference Proceedings	Co-Author	Vol. 2775 (1), 060015, July 2023, doi: <a href="https://doi.org/10.1063/5.0140884">https://doi.org/10.1063/5.0140884</a>
2023	Evaluation Of Physical-Rheological Properties of Nano Titanium Dioxide Modified Asphalt Binder and Rutting Resistance of Modified Mixture	International Journal of Pavement Research and Technology	Main	Vol. 16 (2), March 2023, pp. 285-303, DOI: <a href="https://doi.org/10.1007/s42947-021-00131-0">https://doi.org/10.1007/s42947-021-00131-0</a>
2023	Effect of Warm Mix Asphalt (WMA) Antistripping Agent on Performance of Waste Engine Oil-Rejuvenated Asphalt Binders and Mixtures	Sustainability	Co-Author	15 (4), Feb. 2023 (3807 ), <a href="https://doi.org/10.3390/su15043807">https://doi.org/10.3390/su15043807</a>
2022	The effect of glass fibers and waste engine oil on the properties of RAP asphalt concretes	International Journal of Pavement Engineering	Co-Author	23 (14), Dec. 2022, pp. 5227-5238, DOI: <a href="https://doi.org/10.1080/10298436.2021.2001815">https://doi.org/10.1080/10298436.2021.2001815</a>
2022	Assessment of risk factors causing delays in road construction in Egypt	IOP Conference Series: Materials Science and Engineering	Co-Author	1269 (Nov. 2022) 012007, <a href="https://doi.org/10.1088/1757-899X/1269/1/012007">https://doi.org/10.1088/1757-899X/1269/1/012007</a>
2022	Rejuvenation of aged asphalt binders by waste engine oil and SBS blend: Physical, chemical, and rheological properties of binders and mechanical evaluations of mixtures	Construction and Building Materials	Co-Author	346, Sep. 2022 (128441), <a href="https://doi.org/10.1016/j.conbuildmat.2022.128441">https://doi.org/10.1016/j.conbuildmat.2022.128441</a>
2022	Synergistic effect of SBS copolymers and aromatic oil on the characteristics of asphalt binders and mixtures containing reclaimed asphalt pavement	Construction and Building Materials	Co-Author	327, Apr. 2022 (127026), <a href="https://doi.org/10.1016/j.conbuildmat.2022.127026">https://doi.org/10.1016/j.conbuildmat.2022.127026</a>
2022	Waste nanomaterial-modified asphalt for economic and sustainable pavement construction	Innovative Infrastructure Solutions	Co-Author	Volume 7, No 144, Apr. 2022, <a href="https://doi.org/10.1007/s41062-021-00737-0">https://doi.org/10.1007/s41062-021-00737-0</a>



2021	Study on the Effects of Nano Sb <sub>2</sub> O <sub>3</sub> on Early and Long-Term Aging Behaviour of Bitumen and Asphalt Mixtures	Ain Shams Engineering Journal	Co-authored	Vol. 12, Issue 4, Dec. 2021, pp. 3531-3542, <a href="https://doi.org/10.1016/j.asej.2021.02.041">https://doi.org/10.1016/j.asej.2021.02.041</a>
2021	Sustainability of using reclaimed asphalt pavement: based-reviewed evidence	Journal of Physics Conference Series	Main	1973(1), August 2021, pp 012242, DOI: <a href="https://doi.org/10.1088/1742-6596/1973/1/012241">https://doi.org/10.1088/1742-6596/1973/1/012241</a>
2021	A laboratory study of the effect of fiberglass additive on the behavioural properties of RAP asphalt mixtures	Journal of Physics Conference Series	Co-Author	1973(1), August 2021, pp 012241, DOI: <a href="https://doi.org/10.1088/1742-6596/1973/1/012241">https://doi.org/10.1088/1742-6596/1973/1/012241</a>
2021	Short- and Long-Term Properties of Glass Fiber Reinforced Asphalt Mixtures	International Journal of Pavement Engineering,	Main	Vol. 22, Issue 1, Jan. 2021, pp 64-76, DOI: <a href="https://doi.org/10.1080/10298436.2019.1577421">https://doi.org/10.1080/10298436.2019.1577421</a>
2020	Effect of Asphalt Grade and Polymer Type (SBS and EE-2) on Produced PMB and Asphalt Concrete Mixes Properties	Journal of Materials in Civil Engineering, ASCE	Main	Vol. 32, Issue 12, Dec. 2020, 04020385, DOI: <a href="https://doi.org/10.1061/(ASCE)MT.1943-5533.0003479">https://doi.org/10.1061/(ASCE)MT.1943-5533.0003479</a>
2020	Evaluating Mechanical Properties of Bitumen and Hot Mix Asphalt Modified with Nano Ferric Oxide	Construction and Building Materials	Co-Author	234, Feb. 2020, pp. 1-13, DOI: <a href="https://doi.org/10.1016/j.conbuildmat.2019.117381">https://doi.org/10.1016/j.conbuildmat.2019.117381</a>
2019	Influence of aging on properties of polymer-modified asphalt	Construction and Building Materials	Co-Author	196, Jan. 2019, pp. 54-65, DOI: <a href="https://doi.org/10.1016/j.conbuildmat.2018.11.105">https://doi.org/10.1016/j.conbuildmat.2018.11.105</a>
2018	Investigating Influence of Mineral Filler at Asphalt Mixture and Mastic Scales.	International Journal of Pavement Research and Technology	Co-Author	Vol. 11, Issue 3, May 2018, pp. 213-224, DOI: <a href="https://doi.org/10.1016/j.ijprt.2017.10.008">https://doi.org/10.1016/j.ijprt.2017.10.008</a>
2017	Characteristics of Asphalt Binder and Mixture Containing Nanosilica,	International Journal of Pavement Research and Technology	Main	Vol. 10, Issue 2, Mar. 2017, pp. 148-157, DOI: <a href="https://doi.org/10.1016/j.ijprt.2016.11.009">https://doi.org/10.1016/j.ijprt.2016.11.009</a>
2016	A Conditioning Method to Evaluate Moisture Influence on the Durability of Asphalt Mixture Materials	Canadian Journal of Civil Engineering	Co-Author	Vol. 43, No. 11, Nov. 2016, pp. 943-948, DOI: <a href="https://doi.org/10.1139/cjce-2016-0153">https://doi.org/10.1139/cjce-2016-0153</a>



2015	Twin Tunnels Configuration of the Greater Cairo Metro Line No. 4	Computers and Geotechnics	Co-Author	Vol. 68, July 2015, pp. 66-77, DOI: <a href="https://doi.org/10.1016/j.compgeo.2015.03.015">https://doi.org/10.1016/j.compgeo.2015.03.015</a>
2015	Seismic analysis of urban tunnel systems for the greater Cairo metro line No. 4	Electronic Journal of Geotechnical Engineering	Co-Author	Vol. 20, Issue 10, 2015, pp. 4207-4222,
2014	Analysis of different Loads Affecting the Urban Railway Tunnel Systems of Cairo Metro Underneath the River Nile	Electronic Journal of Geotechnical Engineering,	Co-Author	Vol. 19, Issue Z1, 2014, pp. 9739-9754.

### 8-3 Papers published in Accredited Journals (Local Journals)

Year	Title	Journal	(Main/ Co-Author)	Volume/ Number/Pages
2022	Effects of waste engine oil and crumb rubber rejuvenator on the performance of 100% RAP binder	Journal of Innovative Transportation	Co-Author	Volume 3, Issue 1, 2022, pp. 8-15, DOI: <a href="https://doi.org/10.53635/jit.1072888">https://doi.org/10.53635/jit.1072888</a>
2021	Temperature sensitivity and performance evaluation of asphalt cement incorporating different types of waste polymers	Journal of Innovative Transportation	Main	Volume 2, Issue 2, 2021, DOI: <a href="https://doi.org/10.53635/jit.984159">https://doi.org/10.53635/jit.984159</a>
2021	Evaluation of Hot Mix Asphalt and Binder Performance Modified with High Content of Nano Silica Fume	Journal of Engineering Sciences, Faculty of Engineering – Assiut University, Egypt.	Co-Author	Vol. 49, No. 4, pp. 378- 399, DOI: <a href="https://doi.org/10.21608/jesau.n.2021.70733.1046">https://doi.org/10.21608/jesau.n.2021.70733.1046</a>
2020	Using of VHR satellite images for road network extraction in Egypt	Journal of Engineering Sciences, Faculty of Engineering – Assiut University, Egypt.	Co-Author	Vol. 48, No. 1, pp. 20-31, DOI: <a href="https://doi.org/10.21608/jesau.n.2020.109051">https://doi.org/10.21608/jesau.n.2020.109051</a>
2013	The optimum airport runway orientation for different regions in Egypt	Journal of Engineering Sciences, Faculty of Engineering – Assiut University, Egypt.	Co-Author	Vol. 41, No. 6, Nov. 2013, pp. 2126-2139, DOI: <a href="https://doi.org/10.21608/JES AUN.2013.112514">https://doi.org/10.21608/JES AUN.2013.112514</a>
2011	Evaluation and analysis of urban passengers	Journal of Engineering	Co-Author	Vol. 39, March 2011, pp. 283-299, DOI:



	transport modes operation performance & efficiency	Sciences, Faculty of Engineering – Assiut University, Egypt.		<a href="https://doi.org/10.21608/JES AUN.2010.112515">https://doi.org/10.21608/JES AUN.2010.112515</a>
2011	Investigation in selecting the optimum airport runway orientation with special reference to Egyptian airports	Journal of Engineering Sciences, Faculty of Engineering – Assiut University, Egypt.	Co-Author	Vol. 39, No. 6, Nov. 2011, pp. 1261-1280, DOI: <a href="https://doi.org/10.21608/JES AUN.2011.112516">https://doi.org/10.21608/JES AUN.2011.112516</a>
2006	Factors Affecting the Stability of Highway Side Slopes “Case study: Roads adjacent water ways in Upper Egypt	Journal of Engineering Sciences, Faculty of Engineering – Assiut University, Egypt.	Co-Author	Vol. 34, No. 6, Nov. 2006, pp. 1765-1785, DOI: <a href="https://doi.org/10.21608/JES AUN.2006.111145">https://doi.org/10.21608/JES AUN.2006.111145</a>
1995	Structural behaviour of highway rigid pavement using finite element method	Faculty of Engineering and Technology Journal, Matria, Helwan University, Egypt.	Co-Author	June 1995

**8-4 Papers Published in Refereed/Accredited Conference Proceedings**

Year	Title	Conference	(Main/ Co-Author )	Pages
2023	Using reclaimed asphalt pavement for sustainable development of highway construction: Article review	3rd International Conference on Civil Engineering: Development & Sustainability (ICCE23, Assiut University), Hurghada, Egypt, 24-27 October, 2023.	Main	1036-ICCE23, page 242 – 265. <a href="https://conferences.ekb.e g/article_1971.html">https://conferences.ekb.e g/article_1971.html</a>
2023	Performance grade of asphalt binder modified with waste plastic and rubber	The fourth International Conf. on Civil and Environmental Eng. Technologies 11 12-May 2022 Kufa, Iraq.	Co-Author	AIP Conference Proceedings: Vol. 2775 (1), 060017, July 2023, doi: <a href="https://doi.org/10.1063/5. 0161205">https://doi.org/10.1063/5. 0161205</a>
2023	Experimental-numerical model of permanent deformation in asphalt paving mixtures modified with waste plastic and rubber	The fourth International Conf. on Civil and Environmental Eng. Technologies 11 12-May 2022 Kufa, Iraq.	Co-Author	AIP Conference Proceedings: Vol. 2775 (1), 060015, July 2023, doi: <a href="https://doi.org/10.1063/5. 0140884">https://doi.org/10.1063/5. 0140884</a>



2022	Assessment of risk factors causing delays in road construction in Egypt	36 <sup>th</sup> Eg-MRS International Conference, 24-25 September 2022, Cairo, Egypt	Co-Author	1269 (Nov. 2022) 012007, <a href="https://doi.org/10.1088/1757-899X/1269/1/012007">https://doi.org/10.1088/1757-899X/1269/1/012007</a>
2021	Predicted pavement Performance of Asphalt Paving Modified with High Content of Nanosilica Fume Based on Egyptian Conditions	2 <sup>nd</sup> International Conference on Civil Engineering: Recent Applications and Future Challenges (ICCE2021, Assiut University)	Co-Author	1038-ICCE2, page 59, 10 pages
2021	Sustainability of using reclaimed asphalt pavement: based-reviewed evidence	3 <sup>rd</sup> International Conference on Civil and Environmental Engineering Technology, (ICCEET 2021) Kufa, Iraq	Main	IOP Conf. Series: Journal of Physics Conference Series 1973(1):012242, DOI: <a href="https://doi.org/10.1088/1742-6596/1973/1/012242">https://doi.org/10.1088/1742-6596/1973/1/012242</a>
2021	A laboratory study of the effect of fiberglass additive on the behavioural properties of RAP asphalt mixtures	3 <sup>rd</sup> International Conference on Civil and Environmental Engineering Technology, (ICCEET 2021) Kufa, Iraq	Co-Author	IOP Conf. Series: Journal of Physics Conference Series 1973(1):012241, DOI: <a href="https://doi.org/10.1088/1742-6596/1973/1/012241">https://doi.org/10.1088/1742-6596/1973/1/012241</a>
2013	Effect of Moisture Conditioning on Creep Compliance and Resilient Modulus of Asphalt Concrete	International Journal of Pavements Conference, IJPC, São Paulo, Brazil.	Co-Author	Paper 200-1
2013	Wettability, Surface Tension and Surface Free Energy Behavior of Short-term Aging and Liquid Antistrips Modified HMA Binders	International Journal of Pavements Conference, IJPC, São Paulo, Brazil.	Co-Author	Paper 199-1
2003	Effect of Critical State hardening modelling on stability of slopes,	First International conference of Civil Engineering Science, Faculty of Engineering, Assiut University	Main	Paper 95

**8-5 Dissertation & Thesis authored.**

Year	Title	Publisher	Country	Number of Pages
2004	Elasto-plastic Critical State Model with strain localization in soil structures, Ph.D. Dissertation	University of Innsbruck	Austria	267
1994	An Investigation of structural behaviour of rigid pavement using finite element method, M.Sc. Thesis	Assiut University	Egypt	185



### 8-6 Scientific Review

Dr. Enieb has frequently been invited by different prestigious journals to review papers.

<https://publons.com/researcher/1640782/mahmoud-enieb/>

- a. Editor of Journal of Inventive Transportation, Turkey, since June 2020.
- b. Editorial board of International Journal of Pavement Research and Technology, 2021
- c. Going-peer-review-certificate from Elsevier Researcher Academy, Feb. 2021.
- d. Becoming a peer reviewer from Elsevier Researcher Academy, Feb. 2021.
- e. Reviewer Certificate from Elsevier Researcher Academy, Feb. 2021
- f. Reviewer Certificate from Peeref Institute, Jan. 2021.
- g. Elsevier Reviewer Hub, We're grateful for your peer review in 2020.
- h. Reviewer summary for manuscripts reviewed from date range Jan. 2018 – up till now.

**VERIFIED REVIEWS (118 reviews) as follows:**

- (17) Construction and Building Materials
- (9) Journal of Engineering Sciences
- (14) International Journal of Pavement Research and Technology
- (10) International Journal of Pavement Engineering
- (2) Arabian Journal for Science and Engineering
- (12) Journal of Materials in Civil Engineering (ASCE)
- (11) International conference on civil and environmental engineering technology
- (2) International conference on new materials and chemical industry (NMCI)
- (4) International Conference on Civil Engineering Recent Applications and Future Challenges
- (3) Applied Sciences
- (1) Materials
- (1) Results in Engineering
- (1) Sustainability
- (1) Transportation Research Interdisciplinary Perspectives
- (1) Road Materials and Pavement Design
- (1) Canadian Journal of Civil Engineering
- (1) International advanced researchers and engineering journal
- (1) International Conference on Mechanical, Electric and Industrial Engineering
- (1) Suranaree Journal of Science and Technology

### 9- Memberships in Professional Organizations

Name of Organization	Country	Year
Engineering Syndicate of Egypt	Egypt	Since 1989





Center of Studies and Consulting Engineering	Assiut University	Since 2004
Expert in General Organization for Physical Planning, in the division of highways and transportation studies.	Egypt	Since 2005
Consultant Engineer in the Transportation Ministry, in the Field of “highway studies”.	Egypt	Since 2006
Consultant Engineer in the Field of “Design of Highway and Airports Engineering”, Engineering Syndicate of Egypt, Civil Department	Egypt	Since 2006
Consultant Engineer in the Field of “Geotechnical Engineering”, Engineering Syndicate of Egypt, Civil Department.	Egypt	Since 2009

<b>10- Committees</b>		
<b>Committee</b>	<b>Name of Organization</b>	<b>Dates</b>
Coordinator of civil engineering Dept. (Quality assurance and accreditation)	Faculty of Engineering, Assiut University	May 2006 to June 2014
Academic Supervisor of scientific society (Engineering for life)	Faculty of Engineering, Assiut University	June 2014 to Sept. 2017
Graduation project Committee of Civil Engineering Dept.	Faculty of Engineering, Al-Ahliyya Amman University	Oct. 2017 to June 2018
Scientific Research Committee of Civil Engineering Dept.	Faculty of Engineering, Al-Ahliyya Amman University	March 2018 up till 2021
Promotion and appointment Committee of Civil Engineering Dept.	Faculty of Engineering, Al-Ahliyya Amman University	Sept. 2018 up till 2021
Higher Studies Committee of Civil Engineering Dept.	Faculty of Engineering, Al-Ahliyya Amman University	Sept. 2018 up till Jan. 2020
Higher Studies Committee of the Faculty of Engineering	Assiut University	Sept. 2022 up till Aug. 2023.
Member of the Financial Committee of the Civil Engineering Department Conference ((ICCE23, Assiut University), Hurghada, Egypt, 24-27 October 2023.)	Assiut University	Feb. 2023 up till Nov. 2023.





Administrative coordinator for holding scientific seminars in the Civil Engineering Department	Assiut University	Feb. 2023 up till now
Member of the admission examination committee for doctoral registration for public works in the Department of Civil Engineering	Assiut University	Sept. 2023 to Aug.2024
Cultural Relations Committee of the Faculty of Engineering	Assiut University	Sept. 2024 up till now

<b>11- Awards &amp; Reward</b>		
<b>Award</b>	<b>Institution</b>	<b>Year</b>
External scholarship (Finical support)	Egyptian government	2000
Scientific publishing Scopus of distinguished research.	Al-Ahliyya Amman University	2019, 2020 & 2021
Scopus citation of Scientific Publishing	Al-Ahliyya Amman University	2020
Scientific publishing in WOS of distinguished research.	Assiut University	2020 & 2021, 2022

<b>12- Research Interests</b>
Intelligent Transportation System (ITS)
Reclaimed Asphalt Pavement
Testing and instrumentation of asphaltic materials
Asphalt modeling and asphalt mixture
Asphalt rheology, Nanotechnology in asphalt concrete
Highway and Railway Engineering safety.

<b>13- Social Activities &amp; Interests</b>
<p>I had the chance to share in the consulting works in Sohag, Assiut governorates (Egypt) through the Studies and Consulting Engineering Center, Assiut University, for highway and transportation projects, as follows:</p> <ul style="list-style-type: none"> <li>• Highway and Transportation consultant to Sohag governorate, Egypt concerning, highway construction, highway flexible pavement maintenance, and traffic management (annual work about 250 – 300 km, more than 200 technical reports) Starting from July 2004 up till 2012.</li> <li>• Highway and Transportation consultant to Assiut governorate, Egypt concerning, highway construction, highway flexible pavement maintenance, and traffic management</li> </ul>



(annual work about 50 – 100 km, more than 50 technical reports) Starting from July 2004 up till Sept. 2017.

- Planning, Design & Supervision of a road link that connected Sohag city and the new Sohag city with a length of about 8.3 Km from April 2012 till 2017.
- Planning and design of a road link that connected between new Sohag city and the west desert road with a length of about 14.5 Km starting from July 2014 till 2017.

Also, I had the chance to have a special office “Al Nada Engineering Consultant Office” in the field of consulting, Design & Supervision of Engineering projects, at Nag Hammady City, Quena, and Assiut City, Assiut, Egypt, as follows:

- Technical reports about soil investigation and foundations design for the Arab Contractors (Osman Ahmed Osman & Co.), Egypt, Starting from May 2006 up till 2017.
- Technical reports about highway layers investigation for the Road and Transport Branch in Quena governorate, Egypt, starting from April 2006 till 2017.
- Quena – Luxor Highway Feasibility study, Ministry of Transport, Egypt, November 2006.
- Shop drawing for tunneling and culverts of The Haramain High Speed Rail (HHR) project which is a 444 kilometres (276 mi) high-speed inter-city Rail transport system under construction in Saudi Arabia, Jan. 2010 up to July 2011 With MASCO Company in KSA.
- First Assiut Barrage Area Traffic Study, New Assiut barrage and hydropower plant, Technical Report No. 5, Ministry of Water Resources and Irrigation, Egypt, ABDC – Assiut Barrage Development Consultants, Lahmeyer International – Sogreah – RMD Consult, June 2010.
- Export of highway and traffic planning for railway rehabilitation with road intersection of middle and south areas (Assiut, Sohag, Quena) from Egyptian railways with Railway Engineering Lab., Cairo University, Egypt from 2010 till 2017.
- Planning, and designing most road nets in new Sohag city, Sohag, Egypt, with a length of about 30 Km starting from Jan. 2015 till 2017.
- Second Assiut Barrage Area Traffic Study, New Assiut barrage and hydropower plant, Technical Report No. 22, Ministry of Water Resources and Irrigation, Egypt, ABDC – Assiut Barrage Development Consultants, Lahmeyer International – Sogreah – RMD Consult, January 2017.

**National consultant** of planning and design of highway, traffic, parking area, and railway station for Qous, Nagada, Quena Governorate, Sahel Slim, Badary, Assiut Governorate and Monsha, Sakolta, Sohag Governorate, Egypt with an agreement with United Nations Development Program UN-HABITAT (United Nations Human Settlement Program) from 2008 to 2011.



14- Languages	
Arabic	Mother language
English	Education, taught, research
German	Level III
French	Second language in secondary school

**Date: September, 2024**

I confirm that the given information is true and correct.

**Mahmoud Enieb, Ph. D.**

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Faculty of Engineering, Assiut University,  
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**Signature**

*Mahmoud Enieb Osman*