



# MOSTAFA RADWAN

Office: Nahda University-Faculty of Engineering-First Floor-Civil Engineering Building,  
Benisuef, Egypt, +201110257468, mostafa.yaseen@nub.edu.eg



## EDUCATION

JULY 2011

**B.Sc. CIVIL ENGINEERING – FAYOUM UNIVERSITY – FACULTY OF ENGINEERING, EGYPT**

Project grade: highway engineering entitled “Application Of Maintenance Management System on GARBLT Main Roads Network in Fayoum Region (PMMS)”.

APRIL 2015

**M.Sc. CIVIL ENGINEERING – FAYOUM UNIVERSITY – FACULTY OF ENGINEERING, EGYPT**

Thesis title: Improving of Pavement Management Activities Using Geographic System Techniques.

FEBRUARY 2020

**Ph.D. CIVIL ENGINEERING – MINIA UNIVERSITY – FACULTY OF ENGINEERING, EGYPT**

Thesis title: Development of Pavement Deterioration Prediction Models for some main roads in Egypt.

## EXPERIENCE

2011 – 2012

**SITE ENGINEER, KADRY CONTRACTORS, CAIRO, EGYPT**

I offer advice in the planning, co-ordination and supervision of technical aspects of construction projects (Ready mix concrete plant & Pharmacy factory) in Fifth Settlement, Cairo

2012 – 2015

**DEMONSTRATOR, NAHDA UNIVERSITY IN BENISUEF (NUB), BENISUEF, EGYPT**

### COURSE DEVELOPMENT AND ENHANCEMENT

<i>Course Name</i>	<i>Level</i>	<i>Last Year Taught</i>
Physics 1	(1)	2012
Statics 1	(1)	2012
Drawing 1	(1)	2012
Surveying 1	(2)	2014
Behavior of material	(2)	2014 ,2015
structural analysis	(2)	2014, 2015

Geology	(2)	2014, 2015
Concrete of technology	(3)	2015
Hydrology	(3)	2015
hydraulics	(3)	2015
Design of structure concrete 1	(3)	2015
Principle of mechanical Engineering	(1)	2012
Physics 2	(1)	2012
Civil drawing	(2)	2013
Building construction 1	(2)	2013

#### 2015 – 2020

**TEACHING ASSISTANT**, NAHDA UNIVERSITY IN BENISUEF (NUB), BENISUEF, EGYPT

#### **COURSE DEVELOPMENT AND ENHANCEMENT**

<i>Course Name</i>	<i>level</i>	<i>Last Year Taught</i>
Behavior of material	(2)	2016
Concrete of technology	(3)	2016
Soil mechanics	(3)	2016, 2017, 2018, 2019
Environmental Engineering	(4)	2016, 2017, 2018, 2019
Foundation Engineering 1	(4)	2016, 2017, 2018
Sanitary Engineering	(5)	2016
Foundation Engineering 2	(5)	2016, 2017
Bachelor Project - Highway Engineering	(5)	2017, 2018, 2019

#### 2020 – NOW

**LECTURER**, NAHDA UNIVERSITY IN BENISUEF (NUB), BENISUEF, EGYPT

#### **COURSE DEVELOPMENT AND ENHANCEMENT**

<i>Course Name</i>	<i>level</i>	<i>Last Year Taught</i>
Structural analysis (1)	(1)	2022
Irrigation and drainage engineering	(2)	2022
Properties of material	(2)	2022
Concrete of technology	(3)	2022
Soil mechanics	(3)	2020, 2021
Foundation Engineering 1	(4)	2016, 2017, 2018
hydraulics	(4)	2022
Highway Engineering	(5)	2021, 2022
Foundation Engineering 2	(5)	2016, 2017
Bachelor Project - Highway Engineering	(5)	2017, 2018, 2019, 2020, 2021, 2022

## INDUSTRIAL EXPERIENCE

- ❖ member of the Advisory Unit of the Faculty of Engineering, Al-Nahda University (2012-2020), and now director of the Advisory Unit of the Faculty of Engineering (2020-Now) and its work includes supervising the implementation of various projects of roads and constructions, as well as carrying out the necessary laboratory tests, such as tests for the validity of aggregate

- and compaction (sand cone & proctor) for various layers of roads, as well as tests for concrete (compressive & Tension strength) such as shemedit hammer, Ultrasonic, core test, Loading test in addition to making reports on field visits and inspections.
- ❖ Supervision of rural and urban roads using Civil-3D software.
  - ❖ Execution traffic studies using the Vissim program and solving intersection problems using the Sedra program
  - ❖ I have studied a course in (advanced design of HMA using Superpave) under the supervision of Prof. Mostafa Amin Abo Hashema (My master's and doctoral supervisors and advisor to the Omani Minister of Transport and currently working in the Saudi Ministry of Transport).
  - ❖ Supervising training in road maintenance sites using Full Depth Reclamation method
  - ❖ Supervision of training in construction sites for a road widening from Beni Suef to Minya, affiliated to the General Authority for Roads and Bridges. 2022
  - ❖ Participate in a team to determine the efficiency of a secondary road for the traffic of high vehicle loads, including field visits and making the required report in Assiut Governorate. 2021
  - ❖ Working as a site engineer in the implementation of the national project to develop the road network in Egypt (the eastern road Helwan Al-Karimat), 2021.
  - ❖ Member of the consulting team for Beni-suef Government for determining the causes of accidents on the eastern Road, Sinnoor Cave area 2015.
  - ❖ Participation in the calculation of the traffic study for the teaching hospital project of Al-Nahda University in the new city of Beni Suef 2021.
  - ❖ Supervising the implementation of a group of residential and education buildings in the new city of Beni Suef 2017-2022
  - ❖ Supervising the implementation of sewage regression network, Minia 2021- Now.
  - ❖ Supervising the implementation of the Faculty of Medicine, Al-Nahda University, Beni Suef, 2017
  - ❖ Supervising the finishing of the administrative headquarters of the Ready Mix Concrete Plant (IFCO) in the Fifth Settlement - New Cairo 2011.
  - ❖ Supervising the implementation of a pharmaceutical factory in the industrial zone of the Fifth Settlement - New Cairo 2011.

## PAVEMENT MAINTENANCE & REHABILITATION REALTED STUDIES AND ANALYSIS

- ❖ **Modeling IRI-PCI for Urban flexible pavement 2020:**  
the objective of this project is to develop a PCI – IRI model for secondary roads located in new beni-suef region, Egypt. For this purpose, 14 Km length of selected roads were selected divided into 20 sections. Manual distress survey was conducted to measure PCI though the available distress such as rutting, potholes, alligator, and polished aggregate. A new simplified and low-cost method was conducted to measure IRI though this sections via utilizing ultrasonic distance sensor.
- ❖ **Application of pavement maintenance management system on Urban roads in new Beni-suef city 2021:**  
This Graduation Project is aimed at application of Pavement Maintenance Management System (PMMS) through evaluation of two main roads (20 Km) long located in new beni-suef region. Office data were collected, and Field data collection has been performed. Furthermore, a distress map has been created for all roads. Data entry and analysis have been conducted using Excel sheets and PAVER software, which is considered PMS software. Finally, analysis of maintenance scenarios under different budget levels has been performed to come up with the best scenario of maintenance plan for single year prioritization for a specific budget level using worst-first scheme.

- ❖ **A simplified pavement condition index regression model for pavement evaluation in Urban Roads 2021:**  
the project contains transportation modelling, design of freeway road, PMMS on existing urban roads, and PCI and IRI calculation by modified Drone, graduation project 2021.
- ❖ **Reducing Carbon Emissions by Re-planning Roads for resisting climate change 2022:**  
A novel approach for designing roads was applied in a portion of the eastern Upper Egypt road located at Helwan Gate with a length of about 12 km. A comprehensive study was conducted to come up with the most economic design which was achieved through the new road with short length. As a result, the total mass emissions (KgCO<sub>2</sub>) for the both roads existing and proposed are calculated for the different types of vehicles according to traffic volume, graduation project 2022.

## **SUPERVISION OF SENIOR GRADUATION PROJECTS**

- ❖ Application of pavement maintenance management system on Urban roads in new Beni-suef city, Nahda university 2020.
- ❖ A low cost instrument for pavement evaluation through measuring international roughness index, Nahda University 2021.
- ❖ A simplified pavement condition index regression model for pavement evaluation in Urban Roads, Nahda University 2022.
- ❖ Reducing Carbon Emissions by Re-Planning Roads for resisting climate change, Nahda University 2022.

## **RESEARCH AREA**

- ❖ Pavement maintenance management system
- ❖ **Pavement Evaluation**
- ❖ **Pavement distress models**
- ❖ **Pavement performance models**
- ❖ **Pavement Maintenance Scenarios**
- ❖ **Pavement Maintenance & Rehabilitation Activities**

## **ACADEMIC ACTIVITIES**

- ❖ Cooperate with Dr. Mohamoud Mahjoub, Associate Professor, School of Applied Engr & Tech, New Jersey Institute of Technology, USA in teaching behavior of material course spring 2022.
- ❖ Cooperate with Dr. Hany El-Naggar, Professor & Associate Dean, Faculty of Graduate Studies, Department of Civil and Resource Engineering, Dalhousie University, Canada in teaching concrete technology course spring 2022.
- ❖ Cooperate with Dr. Hany El-Naggar, Professor & Associate Dean, Faculty of Graduate Studies, Department of Civil and Resource Engineering, Dalhousie University, Canada in teaching Foundation Engineering course fall 2021.
- ❖ Lecturer: (Part Time) New Fayoum City - Future Institute of Engineering in Fayoum- Egypt - 2022
- ❖ Co-Author of 5 Technical Investigation Reports through working in many projects.
- ❖ Working in many research/industrial projects in Egypt

- ❖ Member of research group between Fayoum university and Benisuef university working on project to enhancement the rigid pavement performance under heavy load vehicle using Carbon Nano Tube (CNT).
- ❖ Member of research group between Nahda university and Minia university working on project to enhancing the resistance of asphalt pavement to fatigue and rutting distresses appearance.
- ❖ Senior of teaching assistant at civil engineering department, NUB, Egypt from 2015 till now.

## **APPRECIATION CERTIFICATES**

- ❖ Appreciation Certificate "Best Teaching Assistant in Civil Engineering Department" 2016-2017" from Faculty of Engineering, Nahda University.
- ❖ Appreciation Certificate from NAQAA: National Authority for Quality Assurance and accreditation of Education, EGYPT.
- ❖ Appreciation Certificate from Univesiti Malaysia Perlis as a Supervisor for Student mobility program 2017, Malaysia.

## **CONFERENCES, WORKSHOPS AND SEMINARS**

- ❖ The first International Civil Engineering Conference in Fayoum University 2-5 January 2013, Fayoum, Egypt.
- ❖ Conference on The Development of University Education in The Arab and Islamic World in the era of Globalization, 23-24 February 2015, Triumph Hotel, Cairo, Egypt.
- ❖ Student Mobility Program 2017 at Universiti Malaysia Perlis, 17-30 August 2017, perlis, Malaysia.
- ❖ accepted and granted a scholarship for attending a course "Forecast Engineering" at buahaus summer school, 16-28 August 2019, Bauhaus-Universität Weimar, Germany.
- ❖ Student Mobility Program 2019 at University of liverpool, 1-15 Novembert 2019, perlis, England.

## **LIST OF PUBLICATION**

- ❖ RADWAN M , , HASHEM M . Reducing Carbon Emissions by Re-Planning Roads for resisting climate change. Journal of Advanced Engineering Trends, 2022. (under review)
- ❖ RADWAN M , ABO-HASHEMA M , FAHEEM H , HASHEM M . Modeling Pavement Performance Based on LTPP Database for Flexible Pavements. Teknik Dergi. 2020; 31(4).
- ❖ Radwan M.M., Abo-Hashema M.A., Faheem H.P., Hashem M.D. (2020) ANN-Based Fatigue and Rutting Prediction Models Versus Regression-Based Models for Flexible Pavements. In: Badawy S., Chen DH. (eds) Recent Developments in Pavement Engineering. GeoMEast 2019. Sustainable Civil Infrastructures. Springer, Cham.
- ❖ Invitation – Speaker and presenting a paper "Application of Geographic Information Systems in Pavement Maintenance Activities" - The First Annual International Conference on Science, Technology and Entrepreneurship - 19 December 2018, Benisuef, EGYPT.
- ❖ Invitation – Speaker and presenting a paper "Development of Distress Prediction Models for Flexible Pavements using LTPP for Main Roads in Egypt" - The Seventeenth Annual International Conference on Highways and Airport Pavement Engineering, Asphalt Technology, and Infrastructure - 21-22 February 2018, Liverpool, England.
- ❖ Invitation – Speaker and presenting a paper "Utilization of Geographic Information Systems in Pavement Maintenance Activities" - The Fourteenth Annual International Conference on Highways and Airport Pavement Engineering, Asphalt Technology, and Infrastructure - 11-12 February 2015, Liverpool, England.

## **VOLUNTEER WORK**

- ❖ reviewer for the Journal of Transportation Engineering, Part B: Pavements.
- ❖ Organize student training to Liverpool university, England, 2019.
- ❖ Organize a mobility program to UniMap University, Malaysia, 2017.
- ❖ Helping post graduate student to achieve their master researches.





جمهورية مصر العربية  
شهادة تخرج



The Faculty of Engineering, Minia University certifies that  
Eng. Mostafa Mahmoud Yaseen Radwan has been awarded the degree  
of Ph.D in Civil Engineering in 21/4/2020, the approval date of the  
university council, based on the approval of the faculty council in  
14/4/2020.

The title of the thesis is:

"Development of Pavement Deterioration Prediction Models for Some Main  
Roads in Egypt"

This certificate has been given to him upon his own request.

Officer in charge

A.m / 39 / 9 h

Vice-Dean for Graduate Studies

and Research Affairs

for Ramadan Bassiouny Mohamed

Prof. Dr. Yehia H. Magdy

Invoice No.: 4151405053



Dean

Ramadan Bassiouny Mohamed

Prof. Dr. Ramadan Bassiouny Mohamed

Date: 29 / 4 / 2020

The faculty of Engineering, Minia University has been accredited by the National Authority for Quality Assurance  
and Accreditation of Education, NAQAAE, by the decree No.133 in 22/9/2014.







**FAYOUM UNIVERSITY**

06013



**Master's degree Certificate**

This is to certify that Engineer : Mostafa Mahmoud Yaser Radwan //

Born on: 12/10/1989

In : Bani Souwaif

Of Egyptian Nationality

National ID: 28910122200151

**Had Obtained the Degree of Master of Science Engineering**

**IN**

**Civil Engineering (Transportation Planning & Traffic Engineering)**

**Thesis Title**

**( Improvement of Pavement Maintenance Management Activities Using  
Geographic Information Systems Techniques )**

On : (1401)30/4/2015 " as per the authorization given to the University President"

Faculty Approval : 15/4/2015

University Approval : 26/4/2015

"This certificate has been issued upon Candidate's request"

Registrar

*hassan ms 19*  
*5 2015*

Approved

*19 May 59*  
*5 2015*

Vice - Dean  
for postgraduate Studies and Research

*25.5.2015*  
Prof. Dr. Mona Hasan Soliman

Supervisor of the faculty

*25.5.2015*  
Prof. Dr. Hany Ahmed El-Ghazaly





20/11/2014



جامعة الفيوم

شهادة مؤقتة

0083487



تشهد كلية الهندسة

أن السيد / مصطفى محمود ياسين رضوان

وجنسيته مصري

المولود في بنى سويف

بتاريخ ١٩٨٩/١٠/١٢

رقم قومى ٢٨٩١٠١٢٢٢٠٠١٥١

قد حصل على درجة البكالوريوس في الهندسة المدنية

في دور مايو عام ٢٠١١ بتقدير جيد جدا //

مجموع تراكمى ٧٥٠٠/٥٨٩٩ النسبة المئوية ٧٨,٦٥ %

المشروع [هندسة طرق] بتقدير امتياز

وقد اعتمد مجلس الكلية نتيجة إمتحانه في ٢٠١١/٧/٢٠

ومجلس الجامعة في ٢٠١١/٧/٣١

مراقب الشؤون التعليمية

رئيس قسم الخريجين

الموظف المسئول  
هبة أمير ياسر

٢٠١٤/٦/١٢

عميد الكلية

وكيل الكلية لشئون التعليم والطلاب

أ.د. محمد عيسى سيد أحمد

تعريفاً في



٢٠١٤/٦/١٢



## إفادة

إلى من يهمه الأمر

تحية طيبة وبعد ..

بهذا تفيد جامعة النهضة - بني سويف بأن السيد / مصطفى محمود ياسين رضوان

28910122200151

الرقم القومي للسيد /

يعمل لدينا طبقاً للبيانات التالية :-

وظيفة / مدرس بكلية هندسة نوع التعاقد / تعاقد

إدارة / إدارة كلية الهندسة

تاريخ التعيين / كمعد 01/09/2012 حتى تاريخ 25/04/2015

تاريخ الترقية / كمدرس مساعد 26/04/2015 حتى تاريخ 13/04/2020

تاريخ الترقية / كمدرس 14/04/2020 حتى الآن

الرقم التأميني / 33245201

ومازل على قيد العمل لدينا حتى تاريخه وهذه الشهادة صدرت بناء على طلب مقدم لنا لتقديمها لمن يهمه الأمر دون أدنى مسئولية على الجامعة.

تحريراً في : 17/10/2022

أمين عام الجامعة

الموارد البشرية

شئون العاملين

أ. أحمد فتوح

أ. محمد عزام

أ. حسن محمد حسن







# Certificate



National Authority for Quality  
Assurance and Accreditation of  
Education certifies that

تشهد الهيئة القومية لضمان  
جودة التعليم والاعتماد أن

Ass-Lecturer. MOSTAFA MAHMOUD  
YASEN RADWAN

مدرس مساعد / مصطفى محمود ياسين رضوان

has attended a training course entitled

قد حضر دورة تدريبية بعنوان:

Education Programs and Courses  
Specifications and Evaluation of Learning  
Outcomes for H.E. Institutes

توصيف البرامج والمقررات وتقويم نواتج التعلم  
لمؤسسات التعليم العالي

during the period

17/03 - 19/03/2016

في الفترة:

رئيس مجلس إدارة الهيئة

أ. د. يوهانس عيد

مدير إدارة التدريب

أ. د. يوهانس عيد

رئيس مجلس إدارة الهيئة

أ. د. يوهانس عيد

رئيس مجلس إدارة الهيئة



NAHDA UNIVERSITY



UniMAP

University Malaysia- Perlis

## شهادة حضور

تشهد اللجنة المنظمة للمؤتمر أن الدكتور/ مصطفى محمود ييسن

قد شارك ضمن فعاليات :

"مؤتمر تطوير التعليم الجامعي في العالم العربي والإسلامي في عصر العولمة"

الذي عقد بفندق تريمف يومي ٢٣ - ٢٤ فبراير ٢٠١٥ .

رئيس المؤتمر

أ.د/ صديق عفيفي



تحريراً في ٢٠١٥/٢/٢٤

member of.

**Nahdagroup**  
ACADEMIC EXCELLENCE  
Dr. SEDOK AYOUB

Nahda University Road- New Bani-Sweif City  
Bani-Sweif Egypt  
Tel.: (00282 ) 2284680 1/2/3/4/5/6/7  
Fax: (00282) 2284688 - 2284689  
Web: www.nub.edu.eg  
Email: NUB@nub.edu.eg





**UniMAP**

# *Certificate of Completion*

*This is to certify that*

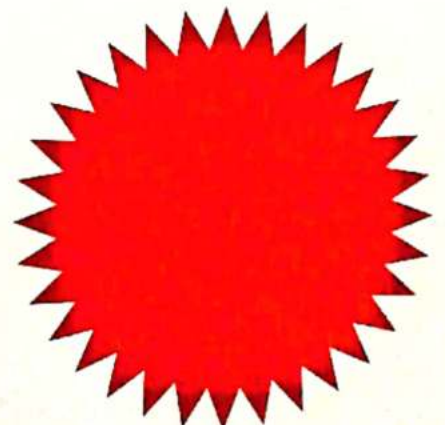
**MOSTAFA MAHMOUD YASEN RADWAN  
(A16971168)**

*has successfully completed*

**Student Mobility Program 2017  
at Universiti Malaysia Perlis**

**from 17 to 30 August 2017**

***Dato' Prof. Dr. Zul Azhar Zahid Jamal  
Vice Chancellor of UniMAP***



**ILMU | KEIKHLASAN | KECEMERLANGAN**

### To whom it concerns

Nahda University certifies that the following students are registered in Nahda University and that they are going for a scientific visit to the University of Liverpool for 30 days starting from 26 June 2019

No	Student Name	Passport Number	Faculty	Department	Gender
1	Ramy Medhat Youssef Fares	A08395410	Engineering	Civil	Male
2	Mohamed Amgad Abdelrihim Abdelaal	A09701694	Engineering	Civil	Male
3	Islam Nasser Omar Taha	A22104802	Engineering	Civil	Male
4	Ibrahim Ashraf Ibrahim Hamed Elbeshbeshy	A13967650	Engineering	Civil	Male
5	Ahmed Radwan Nasr Ewis	A248810171	Engineering	Civil	Male

In addition, Eng / Mostafa Mahmoud Yaseen Radwan – Teaching Assistant at Nahda University in Beni-Suef will accompany the students, and his information are as follows:

Name	Passport Number	Faculty	Position	Gender
Mostafa Mahmoud Yaseen Radwan	A16971168	Engineering	Teaching Assistant at Nahda University, Civil Department	Male

Faculty Dean



Prof/ Salem Mahmoud El-Khodary

University Campus: Nahda University Road \_ New Beni Suef

Tel: (082) 2284680 : 2284688

Fax: (082) 2284688

[www.NAHDAUNIVERSITY.org](http://www.NAHDAUNIVERSITY.org)

مقر الجامعة : طريق جامعة النهضة – مدينة بني سويف الجديدة – بني سويف

تليفون : (082) 2284688 : 2284680

فاكس : (082) 2284688

E-mail: nub@nahdauniversity.org



TM

**ICDL****International Computer  
Driving Licence**

# ICDL Certificate

This is to certify that

**Mostafa Mahmoud Yassin Radwan**

has successfully passed all modules required for the granting of the  
**International Computer Driving Licence**

Syllabus Version:

**4.0**

*Samia Mashaly*

Endorsed by Ministry of Communications  
and Information Technology - Egypt

**27/06/2011**

Date

**EGY000513095**

Serial Number



ECDL  
Foundation



# شهادة انتماء

تشهد نقابة المهندسين المصرية

بأن السيد المهندس / مصطفى محمود ياسين رضوان

حاصل على بكالوريوس الهندسة

من / هندسة الفيوم - جامعة الفيوم

دور مايو عام ٢٠١١

مقيد بعضوية رقم ٤١/٠٢١٦٤ بتاريخ ٢٠١١/١٠/١٠

شعبة مدنى تخصص مدنى

و بأن جميع البيانات عاليه مستخرجه من واقع البيانات المسجلة بالنقابة

تحريرا في ٢٨ ١ ٢٠١٥

نقابة المهندسين المصرية

الرئيس



٢٠١٦





## Test of English as a Foreign Language ( TOEFL )

Name of student: Mostafa Mahmoud Yasin Radwan

Date of birth: 12/10/1989

Sex Male

Country: Egypt

Native Language: Arabic

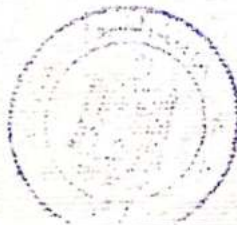
Test Date: May 8<sup>th</sup>, 2013

Scaled Scores:	Listening Comprehension	47	Total Score	513
	Structure & Written Expression	58		
	Reading Comprehension	49		

This TOEFL score is valid for two years

Director

*A. M. A.*  
Dr. Ahmad M. Abdel Salam



President of Fayoum University

Prof. Dr. Abd Al-Hamid Abd Al-Tawab Sabri

*A. Sabri*



16 April 2019

Dr Ahmed Hassan  
Associate Professor, Civil Engineering Department  
Faculty of Engineering  
Beni-Suef University  
EGYPT

Professor Ahmed Elsheikh

Dean of School of Engineering  
Harrison Hughes Building  
Brownlow Hill  
Liverpool  
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Ahmed Mohamed Ahmed Hassan Bakhit	A21662013	Ass. Professor	Male
Mostafa Mahmoud Yassen Radwan	A16971168	PhD student	Male
Mohamed Ahmed Ahmed Ahmed Elfouly	A20607752	5th (senior-2)	Male
Ramy Medhat Youssef Fares	A08395410	2 <sup>nd</sup> (senior-1)	Male
Mohamed Amgad Abdelrihim Abdelaal	A09701694	4 <sup>th</sup> (senior-1)	Male
Islam Nasser Omar Taha	A22104802	4 <sup>th</sup> (senior-1)	Male
Ibrahim Ashraf Ibrahim Hamed Elbeshbeshy	A13967650	4 <sup>th</sup> (senior-1)	Male

Dear Dr Ahmed,

It is with pleasure that I write to invite you and your group of 6 students (one PhD and five undergraduate students) to visit the School of Engineering, University of Liverpool for 30 days from 15 June 2019. During your visit, you and your group will be visiting the Division of Civil Engineering and exploring its teaching and research activities, and also spending time with my Biomechanical Engineering group at the University of Liverpool. All costs of the visit will be covered by Al Nahda University, Egypt.

I look forward to welcoming you and your student group to Liverpool soon.

Yours sincerely,

Ahmed Elsheikh  
Dean of School of Engineering





UniMAP

# *Certificate of Participation*

*This is to certify that*

**MOSTAFA MAHMOUD YASEN RADWAN**  
(A16971168)

Supervisor for  
Student Mobility Program 2017  
at Universiti Malaysia Perlis

from 17 to 30 August 2017

*Dato' Prof. Dr. Zul Azhar Zahid Jamal*  
*Vice Chancellor of UniMAP*



ILMU | KEIKHLASAN | KECEMERLANGAN



This is to certify that the paper entitled:

*"Development of Distress Prediction Models for Flexible Pavements  
using LTPP for Main Roads in Egypt"*

by

*Mostafa M. Radwan*

has been presented and published in the proceedings of LJMU 2018 Conference on:  
Asphalt, Pavement Engineering & Infrastructure

Provided by Liverpool John Moores University on  
21-22 February 2018

A handwritten signature in black ink, appearing to read "Hassan Al Nageim".

-----  
Professor Hassan Al Nageim  
Conference Director