



Moataz Borham

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📘 **Facebook**: <https://web.facebook.com/moatiz.borham/>
🐦 **X**: <https://twitter.com/Moatiz3>
📷 **Instagram**: https://www.instagram.com/mo3taz_borham/
🌐 **LinkedIn**: <https://www.linkedin.com/in/moataz-s-borham-b54881241/>
ID: 29703041701498 **Work permit**: Egyptian **Gender**: Male **Date of birth**:
04/03/1997 **Place of birth**: Al-Monufia, Egypt **Nationality**: Egyptian

ABOUT ME

My name is **Moataz Salah Borham**, an assistant lecturer, and scientific researcher at the Chemistry Department of the Faculty of Science, Benha University, Egypt. I received a **BSc** in Chemistry in 2019 from Benha University, Egypt, and my **MSc** in physical chemistry from Benha University in 2025. My research interests focus on the development, synthesis, characterization, and application of carbon-based nanomaterial and conducting organic polymers to electronics, corrosion protection, and energy-related fields, such as sensors, field-effect transistors, flexible devices, and solar cells. I seek to add new ideas.

WORK EXPERIENCE

Chemistry Department/ Faculty of Science/ Benha University

City: Benha | **Country**: Egypt | **Business or sector**: Professional, scientific and technical activities

[12/2020 – Current] **Chemistry Assistant lecturer**

My main roles are to support the design, development, and production of learning and teaching material —such as Electrochemistry, Analytical Chemistry, Material Science, Kinetic chemistry, Water treatment, and Inorganic chemistry— and deliver it either across a range of modules or within a subject area. And ensure the efficient delivery of teaching programs in accordance with the University's strategy, policy, and procedures. Moreover, helping student groups develop professional skills; ability, and willingness to continue to update knowledge and expertise; contributing to innovation and development in a discipline or area of specialism. I also participate in several tasks within the quality assurance unit at my college.

Egyptian Armed Forces

[12/2019 – 12/2020] **Military Soldier (Mandatory)**

Mandatory military service

Al-Rahma Laboratory

City: Al-Monufia | **Country**: Egypt

Medical laboratory specialist

My responsibilities include preparing and analyzing biological samples such as blood, urine, and serum to detect diseases and evaluate patients' health conditions. I also operate and maintain laboratory instruments, ensure quality control, and accurately record and interpret test results. In addition, I follow safety and hygiene standards to maintain a clean and secure working environment.

EDUCATION AND TRAINING

[08/12/2021 – 17/08/2025]

M.Sc., Physical Chemistry

Chemistry department, Faculty of Science, Benha University, Egypt <https://bu.edu.eg/en/>

Address: Faculty of Science, Benha University, Benha, Egypt | **Field(s) of study:** Electrochemistry, Corrosion Protection: • Chemistry • Environmental sciences | **Thesis:** Electrochemical preparation and characterization of some conducting polymers and their applications.

[09/2020 – 09/2021]

Pre-Master Courses in Inorganic, Organic, Analytical and Physical Chemistry

Chemistry Department, Faculty of Science, Benha University, Egypt <https://bu.edu.eg/en/>

City: Benha | **Country:** Egypt | **Field(s) of study:** Chemistry

Excellent with honor degree, 89.92%(-A), The Second of class

[07/2015 – 07/2019]

BSc in Chemistry

Faculty of Science, Benha University (Egypt) <https://bu.edu.eg/en/>

City: Benha | **Country:** Egypt | **Field(s) of study:** Chemistry, Natural sciences, mathematics and statistics

Excellent with honor degree (A-), 3.86 GPA, Ranked Second among all students in department of Chemistry and Third among the entire college students.

LANGUAGE SKILLS

Mother tongue(s): Arabic **Other language(s):** English

SKILLS

Computer use and Programming | Organizational and planning skills | Written and Verbal skills | Microsoft Office | Teamwork oriented | Decision-making | Analytical skills | Critical thinking | Basic knowledge of Matlab | C++ | Chem-draw

PUBLICATIONS

[2024]

Electrochemical synthesis of polyaniline coating on Pb alloy for high corrosion protection performance

Polyaniline (PANI) coating was electropolymerized on Pb alloy surface using cyclic voltammetry technique in a sulfuric acid solution containing aniline monomers. The corrosion performance of PANI coatings in 1M H₂SO₄ solutions was investigated by an electrochemical method such as potentiodynamic polarization technique. The influence of parameters such as cycle number, aniline concentration as well as scan rate on the anticorrosion properties of PANI film was investigated. The polyaniline coating exhibited a strong decrease of corrosion current in the acidic medium compared to the bare substrate and corrosion potential increased from -0.543 V vs SCE for uncoated alloy to 0.425 V for polyaniline coated lead alloy electrode. The results indicated that Polyaniline coating effectively protected Pb alloy from corrosion in acidic solutions, suggesting its potential as a coating material for corrosion protection of lead alloy in aqueous corrosive environments.

Journal Name: Benha Journal of Applied Sciences (BJAS)

NETWORKS AND MEMBERSHIPS

Social skills and competences

I have a good personality coupled with the integrity of character. I am sure that I will take on my responsibilities competently. I am responsible, energetic, hard worker, and I can work well independently as well as collaboratively on teams of researchers from diverse

backgrounds. Also, I am able to successfully complete multiple tasks with favorable results despite deadline pressure. I am eager to learn, dynamic, and have good communication skills.

CONFERENCES AND SEMINARS

The 3th Youth Researchers Forum at the faculty of Science - Benha University

Faculty of Science - Benha University

Seminar about perovskite solar cell Faculty of Science - Benha El-Obour University

CREATIVE WORKS

Awareness Convey about water and how to prevent the pollution of water

Laboratory Analyst

I worked in a medical laboratory where I perform various clinical analyses and diagnostic tests. My responsibilities include preparing and analyzing biological samples such as blood, urine, and serum to detect diseases and evaluate patients' health conditions. I also operate and maintain laboratory instruments, ensure quality control, and accurately record and interpret test results. In addition, I follow safety and hygiene standards to maintain a clean and secure working environment.

Technical skills and competences

I am responsible for three committees in my faculty (Quality of laboratories, Chemicals, Summer term), also I have good experience in research work and handling the recent analytical.

Interpretation Spectra of Some Techniques

I have the basics of how to interpret the spectra of UV-visible spectroscopy, IR, H NMR, XRD, XPS, SEM, TEM, TGA, Mass Spectroscopy, polarography, and BET.

WORKSHOPS

[01/08/2022] **Principals of electron microscope: how it works and how to read and analyze the results**

Center laboratory-Faculty of science-Benha University

[14/07/2022] **Enriching the educational processes by incorporating of scientific videos**

Online Workshop of JoVE Webinar submitted by Egyptian Knowledge Bank(EKB)

[29/06/2022] **Write our teaching case study EKB**

Online Workshop of Emerald publishing submitted by Egyptian Knowledge Bank(EKB)

[22/08/2021 – 24/08/2021] **XRD Training: Reading Chart, Data Extraction and Analysis**

Center laboratory-Faculty of science-Benha University

[07/2016 – 08/2016] **Practical Application Of Medical Laboratory Investigation**

Advanced Academy Training Center (AATC)

I learned and practiced various clinical analysis techniques. During my training, I gained hands-on experience in preparing and analyzing biological samples such as blood, urine, and serum. I was trained to operate laboratory instruments, perform quality control procedures, and ensure the accuracy of test results. In addition, I learned to follow safety and hygiene standards to maintain a clean and organized laboratory environment.

Fundamentals of Digital Transformation

Center of knowledge and e-services-Faculty of computer and information-Benha University

Main subject / occupational skills covered:

5 Mandatory Modules + 2 Electives: (Mobile App - Web Editing)

ATTACHMENTS

Certificates

Link: https://drive.google.com/file/d/18bWa9BCdOGMaop1JwZ6AUx8KBZWlqipc/view?usp=drive_link

REFEREE

Prof. Dr. El-Sayed Mahmoud Mabrouk

Academic Position: Professor of Physical Chemistry, Faculty of Science, Benha University, Egypt.

Edu-Mail: e.sorour@fsc.bu.edu.eg

Prof. Dr. Mohamed Ahmed Hassan Heikal

Academic Position: Dean of the Faculty of Science, Benha University, Egypt, and Professor of Inorganic Chemistry.

Edu-Mail: mohamed.heikal@fsc.bu.edu.eg

Alternative Email: ayaheikal@hotmail.com

Tel: +201003748093



Unified Certification Center



B 044268

BENHA UNIVERSITY

MASTER OF SCIENCE
CERTIFICATE**The Faculty of Science hereby certifies that:**

Mr. : **MOATAZ SALAH ELSAYED IBRAHIM BORHAM**
Born in : **Monofiya** On : **04/03/1997**
Nationality : **Egyptian** National ID : **29703041701498**

Was awarded the Master degree of Science in Non-Organic Chemistry
Specification : **Physical Chemistry**
Year : **2024 / 2025**

The Thesis Title : **Electrochemical preparation and characterization of some
conducting polymers and their application**

The degree was awarded by The Faculty Council On : **28 / 07 / 2025**
And The University Council On : **17 / 08 / 2025** By Delegation

The Faculty is accredited by the National Authority for Quality Assurance and Accreditation
and approved by Resolution 179 dated 25/06/2018

Official in Charge

Director

Vice Dean

Dean of the Faculty

Prof. Dr. Mohamed Helkal

Based on the Unified Certification Center data in Benha University, date 20/08/2025

E-Mail: grad_certificate@bu.edu.eg

Mobile: 02001272092990

Tel : 0200133210661





Unified Certification Center



B 044401

BENHA UNIVERSITY

PRE-MASTER CERTIFICATE



The Faculty of Science hereby certifies that:

Mr. \ MOATAZ SALAH ELSAYED IBRAHIM BORHAM

National ID: 29703041701498

Birth Date: 04 / 03 / 1997

Passed Successfully the Pre-Master Courses

Credits: 24 Credit Hours

Specification: Non-Organic Chemistry

Department: Chemistry

Total Marks: 1079 Out of 1200

Percentage: 89.92%

Year: 2020 / 2021

General Grade: (-A) (Excellent)

Course Code	Course Name	Credit Hours	Upper Limit	Marks	Grade
CH 601	Advanced Analytical Chemistry	2	100	81	+B Very Good
CH 602	Advanced Inorganic Chemistry	3	150	131	-A Excellent
CH 603	Thermodynamics & Applied Quantum Chemistry	2	100	91	A Excellent
CH 604	Electrochemistry and Kinetics	2	100	92	A Excellent
CH 605	Advanced Physical Organic Chemistry	3	150	142	A Excellent
CH 606	Advanced Organic Chemistry	3	150	143	A Excellent
CH 609	Applied Coordination Chemistry	2	100	86	-A Excellent
CH 610	Chemistry of Corrosion of Metals & Alloys	2	100	94	A Excellent
CH 614	Scientific Writing	1	50	36	-B Good
CH 615	Selected Topics in Analytical Chemistry (1)	2	100	86	-A Excellent
CH 616	Solid State Chemistry	2	100	97	A Excellent

Based on the Unified Certification Center data in Benha University, date 24 November 2025

Official in Charge

Director

Vice Dean

Dean of the Faculty

Dated on: 24/11/2025





Unified Certification Center



BENHA UNIVERSITY

Graduation Certificate

B 020187



The Faculty of Science hereby certifies that:

Mr. : **MOATAZ SALAH ELSAYED IBRAHIM BORHAM**
Born in : **Monofiya** On : **04/03/1997**
Nationality : **Egyptian** National ID : **29703041701498**

Was awarded the academic degree: Bachelor of Science
Specification : **Chemistry**
Session of : **SPRING 2019**
Cumulative GPA : **3.86 Out of 4**
With accumulative Grade : **Excellent with Honor (A-)**

The Faculty Council Approved The Result On : **25 / 06 / 2019**
And The University Council On : **09 / 07 / 2019**

The Faculty is accredited by the National Authority for Quality Assurance and Accreditation
and approved by Resolution 179 dated 25/06/2018

Official in Charge

Director

Vice Dean

Acting Dean of the Faculty

Dr. Eshan

Mohamed Helwan



Nehad Mohamed

Prof. Dr. Nehad El-Barky

Based on the Unified Certification Center data in Benha University, date 10/02/2024

E-Mail: grad_certificate@bu.edu.eg

Mobile: 02001272092990

Tel : 0200133210661





Unified Certification Center



B 022289

BENHA UNIVERSITY

TRANSCRIPT CERTIFICATE



The Faculty of Science hereby certifies that:

Mr./ **MOATAZ SALAH ELSAYED IBRAHIM**
BORHAM

National ID: 29703041701498

Was awarded the academic degree: Bachelor of Science

Session: **Spring 2019**Specification: **Chemistry**Credits: **140 Credit Hours**CGPA: **3.86 Out of 4**Grade: **Excellent with Honor (-A)**Percent: **87.67 %**

Subject	Credits	Marks	Grade	Subject	Credits	Marks	Grade
First Level, 2015-2016				Third Level, 2017-2018			
015 UR English 1	2.0	93	A	311 CH Reaction Mechanism (1)	4.0	91	A
030 UR Computer Science 1	3.0	86	A-	312 CH Organic Chem. (Spectroscopy) (1)	2.0	90	A
040 UR Computer Science 2	2.0	82	B+	313 CH Pesticide Chem. & Toxicology	2.0	99	A
050 UR Human Rights	1.0	81	B+	314 CH Organic Chem. (Spectroscopy) (2)	2.0	89	A-
100 M General Mathematics 1	3.0	94	A	316 CH Natural Products & Carbohydrates	3.0	91	A
100 PH General Physics 1	2.0	94	A	319 Z Molecular Biology & Cytology	3.0	95	A
100 CH General Chemistry 1	2.0	70.5	B-	320 CH Inorganic Chem. & Applications	3.0	96	A
105 M Gen. Mathematics (2)	3.0	99	A	321 CH Forgery & Counterfeiting Chemistry	3.0	89	A-
105 PH General Physics 2	2.0	95	A	323 CH Transition Elements & Complexes	2.0	86	A-
105 CH General Chemistry 2	2.0	77	B	330 CH Irreversible Electrochemistry	2.0	94	A
13 FR Healthy Nutrition	2.0	80	B+	331 CH Kinetics & Photochemistry	3.0	92	A
180 PH Practical Physics 2	1.0	96	A	338 CH Surface, Catalysis & Colloids	2.0	98	A
180 CH Practical Chemistry 2	1.0	99	A	342 CH Analytical Chem. (2)	3.0	82	B+
181 PH Practical Physics 1	1.0	91	A	350 CH Nuclear & Radiation Chem.	2.0	94	A
181 CH Practical Chemistry 1	1.0	97	A				
183 PH Applied Physics (1)	1.0	96.25	A				
183 CH Applied Inorganic Chem. (1)	1.0	87	A-				
185 PH Applied Physics (2)	1.0	66	C+				
185 CH Applied Organic Chem. (2)	1.0	88	A-				
Second Level, 2016-2017				Fourth Level, 2018-2019			
210 CH Small Industries	3.0	89.5	A-	400 CH Research & Essay	2.0	94	A
211 CH Aliphatic Org. Chem. (1)	3.0	90	A	410 CH Dyes & Textiles	3.0	94	A
212 CH Aromatic Organic Chemistry 1	2.0	95.5	A	411 CH Polymers & Petroleum	3.0	96	A
213 CH Aliphatic Org. Chem. (2)	2.0	95	A	412 CH Heteroorganic Chem.	3.0	88	A-
214 M Diff. Equations	2.0	95	A	415 CH Optical & Stereochem.	2.0	100	A
214 CH Aromatic Organic Chemistry (2)	2.0	93	A	416 CH Paints Technology	3.0	94	A
215 PH Modern Physics	3.0	98	A	422 CH Advanced Inorganic Chemistry & Applications of Group Theory	2.0	96	A
215 CH Green Environmental Chemistry	2.0	92	A	432 CH Materials Science	3.0	90	A
219 CH Petrochemicals & Petroleum Additives	2.0	87	A-	439 CH Quantum Chemistry & Statistical Dynamics	2.0	99	A
222 CH Inorganic Chemistry	2.0	88	A-	440 CH Adv. Analytical Chem.	2.0	99	A
231 CH Chemical Thermodynamics	2.0	96	A	441 CH Instrumental Analysis (1)	4.0	96	A
234 CH Electrochemistry	2.0	98	A				
235 G Crystallography & Optical Mineralogy	3.0	93.5	A				
240 CH Water Treatment	3.0	91	A				
241 MC Computer & Statistics	2.0	92	A				
242 CH Analytical Chemistry	3.0	92	A				
270 PH Physical Optics	2.0	85	A-				
291 BOT Gen. Microbiology	3.0	89	A-				

Official in Charge

Director

Vice Dean

Acting Dean of the Faculty

Dated On 10/02/2024

(Prof.) Nehad El-Barky



To whom it may concern

Upon the request of Mr. \ **MOATAZ SALAH ELSAYED IBRAHIM BORHAM**
Born in: **Monofiya** On: **04/03/1997**
Nationality: **Egyptian** National ID: **29703041701498**

Who has been awarded the academic degree: **Bachelor of Science**
Specification: **Chemistry** Session of: **July 2019**

This is to confirm that he ranked "**Second**" among all students in "**Department of Chemistry**", and "**Third**" among the entire college students.

Due to his rank, he was assigned to the "**Department of Chemistry**" in **2019-2020** as a "**Teaching Assistant**" in Chemistry.

This statement has been given to him upon his request for submission to those whom it may concern without any responsibility on the college.

Dated on 10 February 2024

Official in Charge

Vice Dean

Acting Dean of the Faculty

Prof. Dr. Nehad El-Barky





Unified Certification Center



B 044391

BENHA UNIVERSITY

STATEMENT



Upon the request of Mr. \ MOATAZ SALAH ELSAYED IBRAHIM BORHAM

Born in: Monofiya

On: 04/03/1997

Nationality: Egyptian

National ID: 29703041701498

Was awarded the Master degree of Science in Non-Organic Chemistry

Specification: Physical Chemistry

Department: Chemistry

Year: 2025

The Faculty Council Approved The Result On: 28 / 07 / 2025

And The University Council On: 17 / 08 / 2025 By Delegation

This is to confirm that the study system in The Faculty of Science, Benha University is **THE CREDIT HOURS SYSTEM**, and **THE ENGLISH LANGUAGE** is the Sole Medium of Instruction and Assessment for the Postgraduate Degree (**THE PRE-MASTER'S PROGRAM** and **THE MASTER'S THESIS**)

The Faculty is accredited by the National Authority for Quality Assurance and Accreditation and approved by Resolution 179 dated 25/06/2018.

Official in Charge

Director

Vice Dean

Dean of the Faculty

Prof. Dr. Mohamed Heikal

Based on the Unified Certification Center data in Benha University, date 19 November 2025

E-Mail : grad_certificate@bu.edu.eg

Mobile : 00201272092990

Tel : 0020133210661





Unified Certification Center



B 022288

BENHA UNIVERSITY

TO WHOM IT MAY CONCERN



Upon the request of Mr. \ MOATAZ SALAH ELSAYED IBRAHIM BORHAM

Born in: Monofiya

On: 04/03/1997

Nationality: Egyptian

National ID: 29703041701498

Who was awarded the academic degree: Bachelor of Science

Specification: Chemistry

Session of: Spring 2019

With accumulative grade: (A-) (Excellent with Honor)

This is to confirm that the study system in The Faculty of Science, Benha University is
THE CREDIT HOURS SYSTEM, and the teaching language of all courses is
THE ENGLISH LANGUAGE.

The Faculty is accredited by the National Authority for Quality Assurance and Accreditation
 and approved by Resolution 179 dated 25/06/2018.

Official in Charge

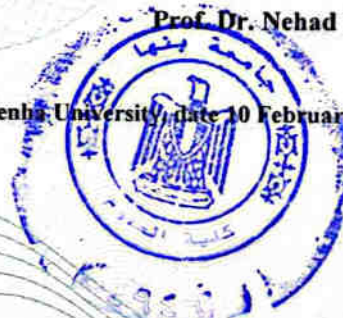
Director

Vice Dean

Acting Dean of the Faculty

Prof. Dr. Nehad El-Barky

Based on the Unified Certification Center data in Benha University, date 10 February 2024

E-Mail : grad_certificate@bu.edu.eg

Mobile : 00201272092990

Tel : 0020133210661



Certificate of Completion

That is to certify that

Name: **Moataz Salah Elsayed Borham**

Native Country **Egyptian**

has successfully completed BU TOEFL course through the duration from // to //

with score

600

Test date

11-8-2021

Note: This score is valid for two years after the test date



Center Director

Prof. Eman M. Abdel-haq

Vice-President





CERTIFICATE OF PARTICIPATION



This certificate is proudly presented to

Moataz Salah Elsayed Borham

For attending the Workshop Entitled

**“Principals of electron microscope: how it works and how to read
and analyze the results”**

Organized by Center laboratory-Faculty of Science-Benha University

On August 1st, 2022

Center lab. Manager
Prof. Eslam Sheha



Vice Dean
Prof. Nehad El-Barkey

Dean of Faculty of Science
Prof. Loutfy Abou-Salem



BENHA UNIVERSITY
FACULTY OF SCIENCE
CENTRAL LABORATORY

CERTIFICATE OF PARTICIPATION



This certificate is proudly presented to

Moataz Salah Elsayed Borham

For attending the 1st scientific workshop

“XRD Training: Reading Chart, Data Extraction and Analysis”

in the period 22 - 24 August 2021

Central laboratory Manager

Prof. Eslam Sheha

.....




Dean of the Faculty
Prof. Loutfy Abou-Salem

.....




Advanced Academy

Advanced Lab

Certificate Of Course Completion

This certificate has awarded to :

Moataz Salah El-Sayed

For the successful completing and attending a course of :
Practical Application Of Medical Laboratory Investigation

the training hours : 38

with the total grade of :

VERY GOOD

course completion date : 22 AUG 2016



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M. Magdy

020758



CERTIFICATE of Achievement

THIS CERTIFICATE IS PROUDLY PRESENTED TO

Moataz Salah Elsayed Borham
Benha University

for the successful accomplishment of the **Fundamentals of
Digital Transformation Certificate.**

5 Mandatory Modules + 2 Electives: (Mobile App. - Web Editing)

From: 07/2021 To: 06/2026

and passed the full exams.

Rami Z.

Dr. Rami Zaki Iskander
Director of
Center of Knowledge and E-Services

Dr. Rami Zaki Iskander

Director of
Central Unit of IT Training

15 JUL 2021

DATE



CERTIFICATE

PROUDLY PRESENTED TO

Moataz Borham

Write our teaching case study EKB

Jun 29, 2022

Date of Completion

Emerald Publishing

Organizer



emerald
PUBLISHING



CERTIFICATE OF ATTENDANCE

JoVE Webinar

إثراء العملية التعليمية بدمج فيديو هات علمية

PRESENTED TO

TA Moataz Salah Borham

PRESENTED ON

7/14/2022



Egyptian Knowledge Bank
بنك المعرفة المصري

joVE

شهادة حضور

مؤتمر العلوم التطبيقية
وتحديات التغيرات المناخية
في الفترة من 8 إلى 9 أكتوبر 2022
"المؤتمر العلمي الثالث"



تشهد كلية العلوم بجامعة بنها بأن
معتز صلاح السيد برهام
حضر فعاليات المؤتمر العلمي الثالث

رئيس المؤتمر
أ.د/ لطفي أبو سالم
عميد الكلية



نائب رئيس المؤتمر
أ.د/ نهاد البرقي
وكيل الكلية لشئون البيئة
وخدمة المجتمع

((نموذج ٢٥ س))

٧٢٢١٩٢٥



وزارة الدفاع شهادة تادية الخدمة العسكرية

بالقوات المسلحة بجمهورية مصر العربية

إصدار تالى

تشهد وزارة الدفاع
أن

رقم عسكرى: ٢٠١٩٦٢١٦٠٣٠٢٦

اسم: معتز صلاح السيد ابراهيم برهام

درجة: جندى

محافظة: المنوفية

الرقم القومى: ٢٩٧٠٣٠٤١٧٠١٤٩٨ سجل مدنى: قويسنا

قد انتهت مدة خدمته العسكرية

قوات الجيش

عن مدة خدمة حسنة قدرها

سنة

شهر ١

يوم ٢٩

سنة ٢٠٢٠

شهر ١٢

يوم ٠١ بتاريخ

بسبب نقله الى الاحتياط تنتهى مدة خدمته بالقوات الاحتياطية

سنة ٢٠٢٩

شهر ١٢

يوم ٠١

وكانت درجة أخلاقه أثناء الخدمة قدوة حسنة

ينتهى العمل بها فى ٢٠٢٦/١١/٣٠

تحرير بتاريخ ٢٠٢٥/١٠/٢٨

إدارة سجلات العسكرية - طبعات مكتب سجلات الغربية

التوقيع: 
رتبة: لواء آخ
اسم: عبدالحميد احمد ابوطالب
مدير إدارة السجلات العسكرية