Hamed Hassanein

+4915752733082

hhassane@uni-muenster.de

Steinfurter Str 79,48149,Münster

Nationality: Egyptian

Birthday: 16/10/1993

Marital Status: Married

Skill

- **Cadence AWR**
- **KICAD**
- **Python**
- **LT-Spice**
- **Soldering**
- **QUCS**
- **Latex**
- **Machine Learning for physics**
- **Inkscape**
- **Node js**
- **Cryostat Setup**

Work Experience

Münster Universität (CENTECH) 10/2023 - Nowadays
MSc student

M.Sc. Thesis (ongoing) – University of Münster
AG Schuck (Prof. Dr. Carsten Schuck)
Cryogenic RF Low-Noise Amplifiers for SNSPD Readout
Design and characterization of cryogenic RF low-noise amplifiers for superconducting nanowire single-photon detectors.
Extensive use of Cadence AWR, LTspice, QUCS, and Python for circuit simulation and optimization; PCB design, fabrication, and soldering. Hands-on work with GaAs HEMT and SiGe HBT technologies. Strong practical expertise in cryostat operation and cryogenic measurement techniques, including timing-jitter measurements for single-photon detection.
Expected completion in ~5 months.

Privat School in Kuwait 11/2018 - 05/2021
Physics Tutor

Physics teacher for the the high school students.

Education

M.Sc physics 10/2021 - Nowadays
Münster Universität

B.Sc physics 08/2012 - 07/2016
Minia University, Egypt

Reference

Prof Carsten Schuck
Universität Münster

Email: Carsten.schuck@uni-muenster.de

Prof. Medhat A. A. IBRAHIM
The British University in Egypt (BUE),

Email: Medhat.Ibrahim@bue.edu.eg

Language

Arabic

Mother tongue

English

my 2nd Language, for my BSc and MSc

German

B1 Niveau

Universität Münster

Kontrollausdruck über alle Leistungen

Der Kontrollausdruck umfasst alle angemeldeten und absolvierten Lehrveranstaltungen und Prüfungsleistungen mit den entsprechenden Noten und Leistungspunkten. Der Aufbau der Leistungsübersicht orientiert sich an der vorgegebenen Modulstruktur des Faches. Teilweise ist diese Modulstruktur noch nicht abgebildet. Die noch fehlenden Zuordnungen zu den Modulen sind jedoch im QISPOS-System hinterlegt und werden noch entsprechend umgesetzt. Bitte beachten Sie, dass die Daten vor Erstellung des Zeugnisses einer Endkontrolle unterzogen werden. Es kann deshalb zum jetzigen Zeitpunkt keine Gewähr für die Richtigkeit der Daten übernommen werden.

Name des Studierenden:	**Hamed Ragab Hassanein**
Geburtsdatum und -ort:	16.10.1993 in Minia Egypt
(angestrebter) Abschluss:	Master
Matrikelnummer:	522612
Hochschule:	Universität Münster Schlossplatz 2 48149 Münster

Physics

Nr.	Bezeichnung der Leistung	Semester	Note	Status Prüfungsdatum	LP	Versuch	Prüfer Vermerk	Art
10000	**Physics**							
11000	**Physikalische Wahlstudien**	**SoSe2024**	**0,0**	**bestanden**	**25,5**			
11002	Veranstaltung ohne Prüfungsleistung 114078 - Materialphysik II (Vorlesung)	SoSe2021	0,0	bestanden	2,0	1	Salinga	S
11003	Veranstaltung ohne Prüfungsleistung 116028 - Spin and Magnetism: Phenomena - Experimental Techniques - Applications	SoSe2024	0,0	bestanden	2,0	1	Donath	S
11004	Veranstaltung ohne Prüfungsleistung 116252 - Theoretische Grundlagen und moderne Anwendungen der Quanten-Nanophotonik	SoSe2024	0,0	bestanden	2,0	1	Wigger	S
11005	Veranstaltung ohne Prüfungsleistung 116030 - Nanophotonic and near-field optics	SoSe2024	0,0	bestanden	2,0	1	Niehues	S
11006	Veranstaltung ohne Prüfungsleistung 116429 - Grundlagen der Seismologie, Seismik und Signalverarbeitung	SoSe2024	0,0	bestanden	2,0	1	Thomas	S
11013	Veranstaltung ohne Prüfungsleistung 116557 - Einführung in das maschinelle Lernen	SoSe2024	0,0	bestanden	2,0	1	Kamps	S
11014	Veranstaltung ohne Prüfungsleistung 116558 - Einführung in die Bayes'sche Statistik	SoSe2024	0,0	bestanden	2,0	1	Kamps	S
11015	Veranstaltung ohne Prüfungsleistung 112025 - Organic Solid-State Lasers	SoSe2023	0,0	bestanden	1,0	1	Schuck	S
11016	Veranstaltung ohne Prüfungsleistung 112033 - Praktikum zur Festkörperspektroskopie	SoSe2023	0,0	bestanden	4,5	1	Donath	S

Nr.	Bezeichnung der Leistung	Semester	Note	Status Prüfungsdatum	LP	Versuch	Prüfer Vermerk	Art
11017	Veranstaltung ohne Prüfungsleistung 112186 - Halbleitermaterialien: Grundlagen und Bauelemente (Vorlesung)	SoSe2023	0,0	bestanden	2,0	1	Bracht	S
11018	Veranstaltung ohne Prüfungsleistung 112021 - Quantencomputer und Quantensimulatoren	SoSe2023	0,0	bestanden	2,0	1	Schuck	S
11020	Veranstaltung ohne Prüfungsleistung 112017 - Emergente Halbleiterbauelemente	SoSe2023	0,0	bestanden	2,0	1	Krenner	S
12000	**Fachliche Spezialisierung und Projektplanung**	**WiSe2025/26**	**1,0**	**bestanden**	**30,0**			
12001	Fachliche Spezialisierung und Projektplanung	WiSe2025/26	0,0	bestanden	30,0	1	Schuck	S
12010	Modulabschlussprüfung	WiSe2025/26	1,0	bestanden 28.10.2025	0,0	1	Schuck	P
13000	**Masterprojekt**	**WiSe2025/26**						
8000	Masterarbeit	WiSe2025/26		angemeldet 24.05.2026	0,0	1	Schuck	P
13001	Masterprojekt	WiSe2025/26		angemeldet	0,0	1	Schuck	S
19000	**Physikalische Vertiefung: Nano- und Quantentechnologien**	**SoSe2025**	**4,0**	**bestanden**	**16,0**			
19001	Vertiefende Vorlesung aus dem Gebiet der Nano- und Quantentechnologie 114053 - Materialien für Quanten-Nanotechnologien und Nanoanalytische Methoden	SoSe2021	0,0	bestanden	2,0	1	Wurstbauer	B
19002	Vertiefende Vorlesung aus dem Gebiet der Nano- und Quantentechnologie 112021 - Quantencomputer und Quantensimulatoren	SoSe2023	0,0	bestanden	2,0	1	Schuck	B
19003	Seminar zur Nano- und Quantentechnologie: Grundlagen und Anwendungen 112023 - Seminar: Quantentechnologien: Grundlagen und Anwendungen	SoSe2023	0,0	bestanden	2,0	1	Schuck	S
19004	Praktikum zur Nanofertigung und Nanoanalytik 112020 - Praktikum zur Nanofertigung und Nanoanalytik	SoSe2023	0,0	bestanden	6,0	1	Schuck	S
19005	Weitere Veranstaltung nach Wahl mit Inhalten der Nano- und Quantentechnologie 118056 - 2D Materials	WiSe2024/25	0,0	bestanden	2,0	1	Wurstbauer	S
19006	Weitere Veranstaltung nach Wahl mit Inhalten der Nano- und Quantentechnologie 118203 - Quantenkommunikation und Quantensensorik	WiSe2024/25	0,0	bestanden	2,0	1	Schuck	S
19010	Mündliche Modulabschlussprüfung	SoSe2025	4,0	bestanden 28.05.2025	0,0	1	Wurstbauer	P

Nr.	Bezeichnung der Leistung	Semester	Note	Status Prüfungsdatum	LP	Versuch	Prüfer Vermerk	Art
21000	**Physikalische Vertiefung: Photonik und Magnonik**	**SoSe2023**	**4,0**	**bestanden**	**18,5**			
21001	Grundlegende oder vertiefende Vorlesung aus dem Bereich der Photonik und Magnonik 114210 - Nichtlineare Wellen und Solitonen (Vorlesung)	SoSe2021	0,0	bestanden	2,0	1	Denz	B
21002	Übung zu einer Vorlesung aus Nr. 1a oder Nr. 4 110408 - Übungen zur Einführung in die Elektronik	WiSe2022/23	0,0	bestanden	2,0	1	Berkemeier	S
21003	Seminar zur Photonik und Magnonik 112060 - Seminar: Photonik und Datenkommunikation	SoSe2023	0,0	bestanden	2,0	1	Demidov	S
21004	Praktikum zur Photonik und Magnonik 112367 - Praktikum zur Photonik und Magnonik	SoSe2023	0,0	bestanden	4,5	1	Imbrock	S
21005	Vorlesung, Versuche im Forschungsbereich oder Forschungsprojekt 114013 - Semiconductor Optics	SoSe2021	0,0	bestanden	2,0	1	Bratschitsch	S
21006	Vorlesung, Versuche im Forschungsbereich oder Forschungsprojekt 112359 - Introduction to Ultrafast Pulse Optics - Einführung in die Ultrakurzimpulsoptik	SoSe2023	0,0	bestanden	2,0	1	Fallnich	S
21007	Vorlesung, Versuche im Forschungsbereich oder Forschungsprojekt 112360 - Introduction to Waveguide Photonics - Einführung in die Wellenleiter-Photonik	SoSe2023	0,0	bestanden	2,0	1	Fallnich	S
21008	Vorlesung, Versuche im Forschungsbereich oder Forschungsprojekt 110406 - Einführung in die Magnonik	WiSe2022/23		angemeldet	0,0	1	Demidov	S
21009	Vorlesung, Versuche im Forschungsbereich oder Forschungsprojekt 110407 - Einführung in die Elektronik	WiSe2022/23	0,0	bestanden	2,0	1	Berkemeier	S
21010	Mündliche Modulabschlussprüfung	SoSe2023	4,0	bestanden 11.04.2023	0,0	1	Fallnich	P
24000	**Fachübergreifende Studien: Deutsch als Fremdsprache**	**WiSe2022/23**	**2,3**	**bestanden**	**12,0**			
24002	Niveau A1.2 - Grundstufe 1: Deutsch für fortgeschrittene Anfänger Anerkennungstext:Anerkennung aus einem Studiengang der Westfälischen Wilhelms-Universität Münster	WiSe2022/23	1,7	bestanden	6,0	1		P
24003	Niveau A2 - Grundstufe 2: Deutsch für Fortgeschrittene Anerkennungstext:Anerkennung aus einem Studiengang der Westfälischen Wilhelms-Universität Münster	WiSe2022/23	3,0	bestanden	6,0	1		P

Erläuterungen

Beschreibung des Notensystems

In den Modulen und den berechneten Leistungen werden folgende Noten vergeben:

1,0 - 1,5	Sehr gut
1,6 - 2,5	Gut
2,6 - 3,5	Befriedigend
3,6 - 4,0	Ausreichend
> 4,0	Nicht ausreichend

In den Veranstaltungen werden folgende Noten vergeben:

1,0, 1,3	Sehr gut
1,7, 2,0, 2,3	Gut
2,7, 3,0, 3,3	Befriedigend
3,7, 4,0	Ausreichend
5,0	Nicht ausreichend

Art

P	Prüfungsrelevante Leistung
S	Studienleistung
B	Anmeldepflichtige Veranstaltung ohne Anwesenheitspflicht
(a)	Leistungen, die zur Berechnung der Gesamtnote "Allgemeine Studien" herangezogen wurden

LP

LP	Leistungspunkte

Vermerk

AT	regulärer Rücktritt

abschl. Bewertung fehlt

Alle Leistungen mit dem Hinweis "abschl. Bewertung fehlt" sind durch den Prüfer noch nicht abschließend bewertet und zur Veröffentlichung freigegeben worden.

NP (Notenpunkte)

Im Studienfach Biologie werden die Teilleistungen mit Notenpunkten statt mit Noten bewertet. Ab der Modulebene werden die erreichten Notenpunkte in Noten umgerechnet.

IELTS™

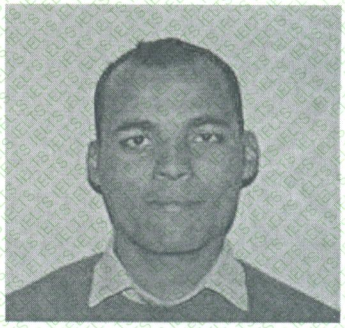
Test Report Form

ACADEMIC

NOTE *Admission to undergraduate and post graduate courses should be based on the ACADEMIC Reading and Writing Modules. GENERAL TRAINING Reading and Writing Modules are **not** designed to test the full range of language skills required for academic purposes. It is recommended that the candidate's language ability as indicated in this Test Report Form be re-assessed **after two years** from the date of the test.*

Centre Number	EG001	Date	11/FEB/2017	Candidate Number	010425

Candidate Details



Family Name	HASSANEIN
First Name	HAMID RAGAB SAYED
Candidate ID	29310162401473

Date of Birth	16/10/1993	Sex (M/F)	M	Scheme Code	Private Candidate
Country or Region of Origin					
Country of Nationality	EGYPT				
First Language	ARABIC				

Test Results

Listening	Reading	Writing	Speaking	Overall Band Score	CEFR Level
5.0	6.0	5.0	5.5	5.5	B2

Administrator Comments

Centre stamp

BRITISH COUNCIL

Validation stamp

CAMBRIDGE ENGLISH · VALIDATION STAMP · BRITISH COUNCIL · IELTS

Administrator's Signature

Date 21/02/2017

Test Report Form Number 16EG010425HASH001A

BRITISH COUNCIL

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CAMBRIDGE ENGLISH Language Assessment
Part of the University of Cambridge

The validity of this IELTS Test Report Form can be verified online by recognising organisations at http://ielts.ucles.org.uk

Spectroscopy Department
National Research Center
Prof. Medhat Ibrahim
November 2017

Recommendation Letter

I Knew Mr. Hamid since two years, he trained at Physics Department, National Research Centre under my supervision. Then he got some training courses in Quantum mechanical calculations using seimemperical and ab inito level of theory.

He gained good knowledge concerning the molecular modeling and spectroscopic analyses of some interactions specially those concerned with gas sensing phenomena.

He is participating in a paper which is still under preparation he carry out the calculations and will by my co-author.

He is active, cooperative and carry out his tasks within time. Herewith and based upon his skills, cooperation, patient and good organization of scientific work recommend without any hesitation, him to have scholarship.

Also I recommend him to any open positions to carry out M.Sc.

Dr. Medhat A. A. Ibrahim

Professor of Applied Spectroscopy
Spectroscopy Department
National Research Centre Dokki, Giza, Egypt
Secretary of the Egyptian National Committee for Pure and Applied Physics
Academy of Scientific Research and Technology

To whom it may concern

I am a professor in Applied Nuclear Physics, Physics Department, Faculty of Science, Minia University, Minia, Egypt. I have known Mr. Hamed Ragab sayed Hassanein since 2013. He is one of my students and he graduated last year (2016) from Physics Program, Faculty of Science, Minia University with GBA 2.74.

I am extremely pleased to be able to recommend Mr. Hamid for getting your Scholarship. I have only known Mr. Hamed for about three years, but I got to know him very well during degree courses and extracurricular activities.

Mr. Hamid is a hard worker doing his best to learn and to get good results in his experimental courses. He is always trying to get good experience to be an excellent student. During his study, he was showing interesting reports in which he appeared to have a good ability to organize analyses and express idea. Mr. Hamid has a strong personality, a good to character, a good degree of intelligence and an excellent ability to do research work. I have no doubt about his ability in showing good progress in his study.

Prof. Dr. Hamdy F. M. Mohamed
Professor of Applied Nuclear Physics
Physics Department, Faculty of Science,
Minia University, P. O. Box 61519 Minia , Egypt
E-mail: hamdyfm@gmail.com

To whom it may concern

I am an associate professor in solid state Physics, Physics Department, Faculty of Science, Minia University, Minia, Egypt. I have known Mr. Hamed Ragab sayed Hassanein since 2013. He is one of my students (I taught him solid state physics course PH306) and he graduated last year (2016) from Physics Program, Faculty of Science, Minia University with GBA 2.74.

I am extremely pleased to be able to recommend Mr. Hamed for getting your Scholarship. Hamed quickly learned to manage his time, work in group situations under strict deadlines, and to recognize the importance of a strong work ethic, persistence, and intellectual integrity. He has long since become the most valuable member of my student-lab team, and a role model for his newer classmates

Mr. Hamed is a good student doing his best to learn and to acquire good results in his experimental courses. All times, he is trying to get good knowledge to be an excellent student. During his study, there has been consistent growth in his reports quality in the last year of his study in the department, in which he appeared to have a good ability to organize analyses and express idea. Mr. Hamed has a strong personality, a good degree of intelligence and an excellent ability to do research work from being with me in ours research lab in the department after his graduation, he joined to us after the head of our lab permission to prepare himself to your scholarship. I have no doubt about his ability in showing good progress in his study.

Dr: Mohamed Osman Abdel Hamed
Associate Professor of Solid State Physics
Physics Department, Faculty of Science,
Minia University, P. O. Box 61519 Minia , Egypt

mazosman2005@yahoo.com

Minia University

CERTIFICATE

Minia University

Science certifies that

Student : HAMED RAGAB SAYED HASSANEIN

born in : Egypt/ Minia Year 1993

National Number / 29310162401473

Has obtained the degree of Bachelor of Science Physics Program

In Spring Semester 2016 With accumulative grade // Good //

GPA 2.74 Points out of Scale 4,Earned hours:140 Credit hours

The Faculty Approved his result at : 12/07/2016

And University Approved his result at : 26/07/2016

The payment receipt number of expenses Certificate / 0988535

The payment receipt Date of expenses Certificate / 27/03/2017

Faculty of Science is Accredited from National Authority for Qualty Assurance and Accreditation of Education

Graduates Unit	Register	Vice Dean for Education and Student Affairs	Dean
	Ramadan		

Prof. Rafat Mohamed Shaker Prof. Mohamed Galal Sayed Ali

Date 2017/03/26

Source Management Information Systems Database

0113993

Revised
Yaser Hassan
Samia Swilem
15-9-2020

CERTIFIED
General Secretary
A. Nassar. M.
15-9-2020

وزارة خارجية جمهورية مصر العربية
مكتب التصديقات والخدمات القنصلية للمواطنين
بني سويف
رقم التصديق ٢٠٢٠/٩/١٥٠٤ بتاريخ
تصدق على صحة الختم والتوقيع البيانى لـ/

MINIA UNIVERSITY

شهادة تخرج

جمهورية مصر العربية

Faculty of science certifies that

Student : Hamed Ragab Sayed Hassanein

Born in : Egypt / Minia **Year** 1993

National Number : 29310162401473

Has obtained the degree of Bachelor of Science Physics Program

In Spring Semester 2016 **With accumulative grade** // Good //

GPA 2.74 Points out of Scale 4,Earned hours:140 Credit hours

The Faculty Approved his result at : 2016/07/12

And University Approved his result at : 2016/07/26

The payment receipt number of expenses Certificate / 969763430

The payment receipt Date of expenses Certificate / 11/08/2020

Faculty of Science is Accredited from National Authority for Qualty Assurance and Accreditation of Education

Graduates Unit	Register	Vice Dean for Education and Student Affairs	Dean
14/9/2020	14-9-2020	Prof.Adel Ahmed Fathi Mahmoud Ahmed	Prof.Rafat Mohamed Shaker Hassan

Date 2020/09/14

MINIA UNIVERSITY www.minia.edu.eg

Source Management Information Systems Database

73033

Revised
Yaser Hassan
Samia Swilem
15-9-2020

CERTIFIED
General Secretary
A. Nasser. M
15-9-2020

وزارة خارجية جمهورية مصر العربية
مكتب التصديقات والخدمات القنصلية للمواطنين
بني سويف
رقم التصديق ٢٢-٤٩٢ بتاريخ ١٥/٩/٢٠٢٠
نصدق على صحة الجهات والتواقيع التالي /

Minia University
Faculty of Al-Alsun
Languages and Translation Center (LTC)

جامعة المنيا
كلية الألسن
مركز اللغات والترجمة

Student's Affairs System

Transcript
Credit Hours System

Photo

The Faculty of Science, Minia University, hereby certifies that the student/ **Hamed Ragab Sayed Hassanein** has graduated **Second** Semester **2016** **Physics Program**

Below is a transcript of the courses taken by the student:

Code	Course	Grade	Mark	Code	Course	Grade	Mark	Code	Course	Grade
MA101	Mathematics 1	B+	3.3	PH101	General Physics 1	C	2.0	MA103	Mechanics	C
MA105	Probability and Statistics1	B	3.0	CH101	General Chemistry1	B	3.0	CH103	Analytical Chemistry Practical 1	A
PH103	Practical Phyrics1	A	4.0	UN03	Computer	C+	2.3			
MA102	Mathematics 2	B	3.0	CH104	Organic Chemistry – Practic	A-	3.7	PH102	General Physics 2	C
PH104	Practical Physics2	C+	2.3	PH105	General Biophysics	C	2.0	UN01	English	C+
UN02	Human Rights	B+	3.3	UN05	Scientific report writing and communication skil	B-	2.7			
CH102	General Chemistry 2	C-	1.7	CS101	Introduction in Computer	C	2.0	PH201	Natural Light	C-
PH202	Waves	C+	2.3	PH203	Practical Physics 3	A	4.0	PH204	Mathematical Physics	C
PH205	Thermodynamics	C+	2.3	PH206	Modern Physics	C+	2.3			
PH207	Circuits	A-	3.7	PH208	Alternating Current	C+	2.3	PH209	Practical Physics 4	A
PH210	Electromagnetics	B-	2.7	PH211	Atomic and molecular spectra	C	2.0	PH212	Computational Physic	B
PH213	Classical Mechanics	C	2.0							
PH304	Electronics	B+	3.3	PH324	Environment Physic	B-	2.7	PH301	Nuclear Physics1	B-
PH302	Practical Physics 5	B	3.0	PH305	Practical Physics 6	B	3.0	PH326	Renewable Energy Physics	B+
PH307	Practical Physics 7	B	3.0	PH306	Solid-State Physics1	C	2.0	PH325	Special Relativity	C
PH309	Logic Circuits Design and Application	A-	3.7	CH305	Electric Chemistry	C	2.0	PH303	Quantum Physics1	A-
PH328	The Physics and Application of Pneumatics	B	3.0	PH310	Statistical Physics 1	B-	2.7	PH422	Physical Devices	B-
PH405	Semiconductors	B	3.0	PH406	Practical Physics 9	B+	3.3			
PH323	Digital Electronics	A	4.0	PH308	Electrodynamics	C	2.0	PH401	Nuclear Physics 2	B+
PH409	Laser Physics	B	3.0	PH402	Practical Physics 8	B+	3.3	PH403	Solid-State Physics2	C+
PH404	Quantum Physics2	A	4.0	PH426	Thin-Films and its Applications	B+	3.3			
PH321	Astronomy Meteorology Physics	C-	1.7	PH407	Optical Communication	C	2.0	PH499	Essay and Research	A
PH423	Radiation Physics	B	3.0	PH421	Nuclear Reactors	C+	2.3	PH429	Cosmic Rays	B+
PH408	Statistical Physics2	C	2.0							

Accumulative grade: **Good** with total GPA **2.74** out of 4

Graduates' Affairs (signature)

Students' Affairs Director (signature)

Vice Dean for Students and Education Affairs (signature)

Dean (signature)

Director, LTC

shawki Ramadan

Translated by

Chairman, Board of Directors

Abdel Aziz Fahd

MINIA UNIVERSITY

شهادة تخرج

جمهورية مصر العربية

Certificate

This is to certify That student : Hamed Ragab Sayed Hassanein

Has obtained Bachelor of Science Physics Program in Spring Semester 2016

Code	Subject Name	Rating	Points	Code	Subject Name	Rating	Points	Code	Subject Name	Rating	Points
MA101	Mathematics 1	B+	3.30	PH101	General Physics 1	C	2.00	MA103	Mechanical 1	C	2.00
MA105	Probabilities and Statistics 1	B	3.00	CH101	General Chemistry 1	B	3.00	CH103	Analytical Chemistry practical 1	A	4.00
PH103	Practical physics 1	A	4.00	UN03	computer	C+	2.30				
MA102	Mathematics 2	B	3.00	CH104	Organic chemistry practical	A-	3.70	PH102	General Physics 2	C	2.00
PH104	Practical physics 2	C+	2.30	PH105	Physics of vital public	C	2.00	UN01	English Language	C+	2.30
UN02	Human Rights	B+	3.30	UN05	Writing scientific reports and communication skills	B-	2.70				
CH102	** General chemistry 2 ** 2013-2014	C-	1.70	CS101	Introduction to Computer	C	2.00	PH201	Natural light	C-	1.70
PH202	Waves	C+	2.30	PH203	Practical physics 3	A	4.00	PH204	Mathematical physics	C	2.00
PH205	Thermodynamics	C+	2.30	PH206	Modern physics	C+	2.30				
PH207	Electric circuits	A-	3.70	PH208	Alternating Current	C+	2.30	PH209	The physics of the process 4	A	4.00
PH210	Electromagnetic	B-	2.70	PH211	Atomic and molecular spectra	C	2.00	PH212	Computational Physics	B	3.00
PH213	Classical mechanics	C	2.00								
PH304	Electronics	B+	3.30	PH324	Environmental Physics	B-	2.70	PH301	Nuclear physics 1	B-	2.70
PH302	Practical physics 5	B	3.00	PH305	Physics process 6	B	3.00	PH326	Renewable energy physics	B+	3.30
PH307	Practical Physics (7)	B	3.00	PH306	Physics of solids (1)	C	2.00	PH325	Special relativity	C	2.00
PH309	Digital circuits design	A-	3.70	CH305	Electrochemistry	C	2.00	PH303	Quantum physics 1	A-	3.70
PH328	Physics and applications of pneumatic suspensions	B	3.00	PH310	Statistical Physics (1)	B-	2.70	PH422	Physical Instruments	B-	2.70
PH405	Semiconductors	B	3.00	PH406	Laboratory Physics 9	B+	3.30				
PH323	Digital electronics	A	4.00	PH308	Electrodynamics	C	2.00	PH401	Nuclear Physics 2	B+	3.30
PH409	Laser Physics	B	3.00	PH402	Laboratory Physics 8	B+	3.30	PH403	Solid State Physics 2	C+	2.30
PH404	Quantum Physics 2	A	4.00	PH426	Thin Films and their Applications	B+	3.30				
PH321	Physics and astronomy observations	C-	1.70	PH407	Optical connections	C	2.00	PH499	Essay and Research	A	4.00
PH423	Radiation Physics	B	3.00	PH421	Nuclear Reactors	C+	2.30	PH429	Cosmic Rays	B+	3.30
PH408	Statistical Physics 2	C	2.00								

A Excellent / A- Excellent / B+ Very Good / B Very Good / B- Good / C+ Good / C Pass / C- Pass / D+ Pass / D Pass / F Fail

Accumulative grade Good GPA 2.74 Credit Hours 140

The payment receipt number of expenses Certificate : and date : / /20

Graduate unit Registrar Vice Dean for Education and Student Affairs Dean

14/9/2020

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