



# Muhammad Usman

**Date of birth:** 27/09/2002 | **Nationality:** Pakistani | **Sex:** Male | **Phone:** (+92) 03445100732 (Mobile)

[usmn4u@icloud.com](mailto:usmn4u@icloud.com) | [LinkedIn](#):

[https://www.linkedin.com/in/muhammad-usman-b352322a8/?utm\\_source=share&utm\\_campaign=share\\_via&utm\\_content=profile&utm\\_medium=ios\\_app](https://www.linkedin.com/in/muhammad-usman-b352322a8/?utm_source=share&utm_campaign=share_via&utm_content=profile&utm_medium=ios_app)

**Address:** Village Dehra, Post office Domeli, Tehsil Sohawa,, 496

**Whatsapp Messenger:** 03445100732 | Pakistan (Home)

## ● ABOUT MYSELF

I am a Physics educator at Paragon Science College Domeli. I completed my bachelor's in Applied Physics and worked on a project "Gravitational Lensing; Scope and Limitations" in my final year specifically related to micro-lensing which is a tool to discover and analyze information about exoplanets and seeking for MS in Astrophysics or similar field to pursue my career.

## ● EDUCATION AND TRAINING

07/10/2019 – 15/08/2023 Islamabad, Pakistan

**BACHELOR'S IN APPLIED PHYSICS** Federal Urdu University of Arts, Science & Technology ,Islamabad

Main subject of my degree are Mechanics, calculus, numerical analysis, linear algebra, quantum mechanics, mathematical methods of physics, differential equation and physics labs; Matlab, computational tools and electronics.

**Website** <https://fuuastisb.edu.pk/> | **Field of study** Physics | **Final grade** cgpa 3.09/4 | **Type of credits** Credit Hours |

**Number of credits** 131 | **Thesis** Gravitational Lensing; scope and limitation

01/06/2017 – 01/06/2019 Rawalpindi, Pakistan

**INTERMEDIATE - HSSC** Board of Intermediate and Secondary Education Rawalpindi

**Website** <https://biserawalpindi.edu.pk/>

## ● WORK EXPERIENCE

**PARAGON SCIENCE COLLEGE** – DOMELI (JHELUM), PAKISTAN

**HIGHER EDUCATION PHYSICS TEACHER** – 01/09/2023 – CURRENT

Teach Physics to intermediate Fsc classes

-Weekly Lab activities and Projects

-Monthly seminars and debates on theoretical physics

## ● SKILLS

C&C++ | Matlab | Scilab | mathmetica | Microsoft office | Creative writting(Urdu poetry)

## ● PROJECTS

2022 – 2023

**Final year project and thesis; Gravitational Lensing: Scope and Limitations**

-Detailed version of General theory of Relativity

-Gravitational Lensing and Its types

-Micro-lensing: a powerful tool to detect, analyze and explore exoplanets

## ● HONOURS AND AWARDS

2017  
**Educational Scholarship for Intermediate – The Punjab educational Endowment Fund**

Gota educational scholarship of 3000 rupees monthly for my Fsc pre engineering by Punjab Government , which covers my tuition fee of college as well as my travelling expenses.

2022

### **Young poet award – Jasn e baharan Musharia**

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- Native language poet and participate a lot of events as a guest poet
- Win young poet award 2022 on district level
- Videos of presentation poetry gained thousands of views on social media
- 

### **VOLUNTEERING**

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2021 – CURRENT Jhelum

### **Antipolio Campaigne**

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- Volunteer in anti polio campaigns twice a year with my mother which is LHW (lady health worker)

### **LANGUAGE SKILLS**

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Mother tongue(s): **URDU**

Other language(s):

|                | UNDERSTANDING |         | SPEAKING          |                    | WRITING |
|----------------|---------------|---------|-------------------|--------------------|---------|
|                | Listening     | Reading | Spoken production | Spoken interaction |         |
| <b>ENGLISH</b> | C1            | B2      | B2                | B2                 | B2      |

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

**Dear Members of Admission Committee,**

I am Muhammad Usman, a graduate of **Applied Physics**, currently working as a **Higher Education Physics Teacher at Paragon Science College**. My primary responsibilities include **teaching Physics to intermediate (FSc) students**, supervising **weekly lab experiments**, managing **student research projects**, and organizing **seminars and debates** on topics related to **theoretical physics**. With a strong academic background and a passion for advanced materials science, I am eager to apply for the **Master's program in Chemistry and Physics of Materials** at the **University of Salzburg**.

Throughout my Bachelor's degree, I studied fundamental subjects such as **Mechanics, Electromagnetism, Thermodynamics, Oscillation, Waves and Optics, Solid State Physics, Circuit Electronics, and Nuclear Physics**, all of which have given me a solid foundation in the principles of modern physics. My interest in **material behavior at the atomic level** was sparked through topics like **Solid State Physics** and **Basic Electronics**, and has only grown stronger with teaching and lab supervision experience.

The Master's program at the University of Salzburg stands out for its interdisciplinary curriculum, combining **physics, chemistry, and materials science**. I am particularly drawn to modules such as **Nanomaterials, Quantum Mechanics for Material Sciences, Crystallography, Thin Film Technology, and the Master's Thesis and Research Project**, which align closely with my academic interests and goals. I am eager to gain in-depth knowledge of material properties and contribute to innovative research in this growing field.

In **Pakistan**, unfortunately, **research infrastructure and funding in advanced materials science are quite limited**. This creates challenges for students who are eager to explore this discipline in depth. Gaining admission to this program would be a **dream come true**, offering access to **world-class laboratories**, an international academic environment, and the chance to learn from experts in the field.

The **University of Salzburg** is home to **cutting-edge research groups** in **nanostructured materials, surface science, and solid-state chemistry**, with access to modern labs and international collaborations. The city of **Salzburg**, known for its cultural heritage and breathtaking landscapes, offers a **high quality of life** and a peaceful academic atmosphere—ideal for focused study and research.

Studying abroad will undoubtedly be a **challenge** for me, both personally and financially, but I am fully **committed to embracing this step**. I see it as an opportunity for personal growth, academic excellence, and making meaningful contributions to the field of materials science.

Thank you for considering my application.

Sincerely,  
**Muhammad Usman**

بِسْمِ اللّٰهِ الرَّحْمٰنِ الرَّحِيْمِ  
HSSC No:- 654917 C.NO.: 333304-1947722



Board of Intermediate and  
Secondary Education, Rawalpindi  
Intermediate Certificate Examination  
ANNUAL 2019



Certified that MUHAMMAD USMAN

Son/Daughter of MUHAMMAD ILYAS

whose particulars are given below has passed the Intermediate Certificate Examination held in the month of MAY-JUN, 2019 Securing 652 Marks ( SIX HUNDRED FIFTY-TWO )

Roll No 757354 Registration No. 17044710218

Group of Subjects PRE-ENGINEERING Regular / Private REGULAR

As a whole / In Parts AS A WHOLE Grade awarded C

District/Institution THE WINGS COLLEGE FOR BOYS, NEAR THE WISDOM SCHOOL SYSTEM

DAULTALA, TEH. GUJAR KHAN DISTT RWP

SUBJECT - WISE DETAIL OF MARKS OBTAINED

| S.NO  | NAME OF THE SUBJECT | MAXIMUM | OBTAINED |
|-------|---------------------|---------|----------|
| 1     | URDU                | 200     | 131      |
| 2     | ENGLISH             | 200     | 101      |
| 3     | ISLAMIC EDUCATION   | 50      | 043      |
| 4     | PAKISTAN STUDIES    | 50      | 049      |
| 5     | MATHEMATICS         | 200     | 125      |
| 6     | PHYSICS             | 200     | 119      |
| 7     | CHEMISTRY           | 200     | 084      |
| TOTAL |                     | 1100    | 652      |

INTERNAL ASSESSMENT GRADE : C

Rawalpindi Dated SEPTEMBER 7, 2021

SECRETARY

Note:- This certificate is issued without alteration/erasure.

**APOSTILLE**

(Convention de La Haye du 5 October 1961)

|   |  |
|---|--|
| 1 Country<br>Pakistan   | This Public Document<br>Education Document |
| 2 has been signed by<br>Shafaqat Ali                              |  |
| 3 acting in the capacity of<br>Assistant Director Legal           |  |
| 4 bears the seal stamp of<br>Inter Boards Coordination Commission | <i>Certified</i>                           |
| 5 at Islamabad Pakistan   |  |
| 6 the 18th of October 2024  |  |
| 7 by Ministry of Foreign Affairs                                  |  |
| 8 No. APO-JTGI-SIPR-PCKX  |  |
| Date: 18 Oct 2024   |  |
| Seal/Stamp  | Shehroz Faisal                             |

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23 OCT 2024

Checked by Muhammad Mohsin

Assistant Director (Cons-V)

LON

BOARDS COORDINATION  
COMMISSION (IBCC)  
CC000137113  
HSSC/Inter

DISTINCTION  
EXCELLENT  
VERY GOOD  
GOOD  
FAIR  
SATISFACTORY

SHAFAQAT ALI  
Pass Mark (50%)  
Assistant Director (Legal)  
Boards Coordination Commission (IBCC)  
Government of Pakistan  
Ministry of Foreign Affairs &  
Professional Training Islamabad.

10 SEP 2024



PREPARED BY \_\_\_\_\_

NAME \_\_\_\_\_

*Qari Khalid Mehmood Hashmi*  
Assistant  
Board of Intermediate & Sec.  
Education, Rawalpindi

CHECKED BY \_\_\_\_\_

*Yasmin Akhtar*

Office Superintendent  
Board of Intermediate & Sec.  
Education Rawalpindi

Ministry of Foreign Affairs, Pakistan  
HQ31329aa



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6

216

S. No. 008618

Seat No. 26274  
FEDERAL URDU UNIVERSITY FEDERAL URDU UNIVERSITY FEDERAL

قوی زبان میں تعلیم

قوی ترقی کا ذریعہ

# وفاقی اردو یونیورسٹی

برائے فنون، سائنس اور طیکنالوجی

Federal Urdu University  
of Arts, Sciences and Technology

FACULTY OF SCIENCE

Bachelor of Studies

کلیہ علوم  
بی ایس

ہرگاہ

Be it known that

Muhammad Usman

محمد عثمان

St/o / D/o

Muhammad Ilyas

محمد الیاس

ولد/ بنت

has pursued a course of study prescribed by this University for the Degree of Bachelor of Studies in..... Applied Physics ..... in the Faculty of Science and has passed the requisite examination of 2023 held in 2023 having been placed in..... B ..... class/grade.

It is hereby certified that he/she has been duly admitted to the degree of Bachelor of Studies in this University.

نے کلیہ علوم کے مضمون اطلاقی طبعیات میں بی ایس کی سند کے لئے اس جامعہ کے منظور شدہ نصاب کی تکمیل کر لی ہے اور مطلوبہ امتحان ۲۰۲۳ء منعقدہ ۲۰۲۳ء میں کامیاب ہو کر بی درجہ/ گرید حاصل کر لیا ہے۔

لہذا تصدیق کی جاتی ہے کہ انہیں اس جامعہ میں بی ایس کے درجہ پر فائز کیا گیا۔

مکمل  
محل  
Registrar/

بایہ  
شیخ الجامعہ / Vice Chancellor

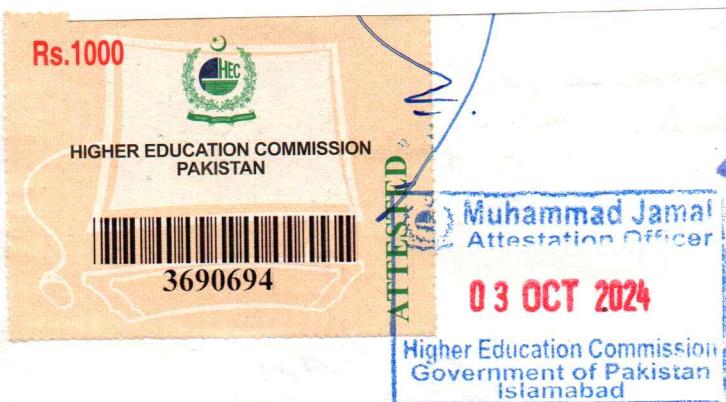
Dated 9-7-2024 PAKISTAN

پاکستان 9-7-2024

Note Detailed transcripts of examination results have been issued separately

امتحان کے مضمین اور حاصل کردہ نتائج کی تفصیلات علیحدہ جاری کی گئی ہیں۔

| APOSTILLE  |  |
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| 3 acting in the capacity of<br>Attestation Officer       |  |
| 4 bears the seal stamp of<br>Higher Education Commission |  |
| 5 at Islamabad Pakistan                                  |  |
| 6 the 18th of October 2024                               |  |
| 7 by Ministry of Foreign Affairs                         |  |
| 8 No APO-WOPX-VEGK-ROSM                                  |  |
| Date: 18 Oct 2024  |  |
| Seal/Stamp   |  |
|  | Shehzore Faisal                            |



CONTROLLER OF EXAMINATIONS

Checked by Muhammad Mohsin

Assistant Director (Cons-V)

Ministry of Foreign Affairs  
Islamabad  
Pakistan  
Responsibility of the  
Controller of Examinations  
and  
Muhammad Mohsin

**ÖSTERREICHISCHE BOTSCHAFT  
ISLAMABAD**

**Beglaubigungsregister A-Nr. 3081/2025**

Die Echtheit der nebenstehenden Unterschrift des MUHAMMAD MOHSIN und des Amtssiegels des Außenministeriums von Pakistan wird bestätigt.

Konsulargebühr gemäß TP 4 (1) KGG 1992 idgF im Gegenwert von EUR 80,-- entrichtet.

*Margit Loidolt*

Margit LOIDOLT, 1. BS und Konsulin

Islamabad, am 24.04.2025





Final Transcript  
B.S (APPLIED PHYSICS)

Academic Record of :

Seat No: 26274

Enrolment: 15L/2/06929/M/APP./2019-3

MUHAMMAD USMAN

Batch: 2019

S/o, D/o :

MUHAMMAD ILYAS

S/o, D/o :

| Autumn/2019 |       |             |              |         |             | Spring/2020 |             |              |         |             |       | Autumn/2020 |              |         |             |       |             | Spring/2021  |         |  |  |  |  |
|-------------|-------|-------------|--------------|---------|-------------|-------------|-------------|--------------|---------|-------------|-------|-------------|--------------|---------|-------------|-------|-------------|--------------|---------|--|--|--|--|
| Course Code | Grade | Grade Point | Credit Hours | Product | Course Code | Grade       | Grade Point | Credit Hours | Product | Course Code | Grade | Grade Point | Credit Hours | Product | Course Code | Grade | Grade Point | Credit Hours | Product |  |  |  |  |
| PHY116      | B     | 3           | 2            | 6       | PHY121      | A           | 4           | 3            | 12      | PHY126      | C+    | 2.5         | 2            | 5       | PHY246      | A     | 4           | 2            | 8       |  |  |  |  |
| PHY110      | A     | 4           | 3            | 12      | PHY122      | C+          | 2.5         | 3            | 7.5     | PHY236      | B     | 3           | 2            | 6       | PHY241      | C     | 2           | 3            | 6       |  |  |  |  |
| PHY111      | C     | 2           | 3            | 6       | PHY123      | B           | 3           | 3            | 9       | PHY231      | A     | 4           | 3            | 12      | PHY242      | B+    | 3.5         | 3            | 10.5    |  |  |  |  |
| PHY112      | C     | 2           | 3            | 6       | PHY124      | B+          | 3.5         | 3            | 10.5    | PHY232      | A     | 4           | 3            | 12      | PHY243      | B     | 3           | 3            | 9       |  |  |  |  |
| PHY113      | D     | 1.5         | 3            | 4.5     | PHY125      | B+          | 3.5         | 3            | 10.5    | PHY233      | A     | 4           | 3            | 12      | PHY244      | A     | 4           | 3            | 12      |  |  |  |  |
| PHY114      | B     | 3           | 3            | 9       | PHY235      | A           | 4           | 3            | 12      | PHY234      | C     | 2           | 3            | 6       | PHY245      | C+    | 2.5         | 3            | 7.5     |  |  |  |  |
| PHY115      | C     | 2           | 3            | 6       |             |             |             |              |         |             |       |             |              |         |             |       |             |              |         |  |  |  |  |
|             |       |             |              |         |             |             |             |              |         |             |       |             |              |         |             |       |             |              |         |  |  |  |  |
| G.P.A       | 2.48  |             | 20           | 49.5    | G.P.A       | 3.42        |             | 18           | 61.5    | G.P.A       | 3.31  |             | 16           | 53      | G.P.A       | 3.12  |             | 17           | 53      |  |  |  |  |
| C.G.P.A     | 2.48  |             |              |         | C.G.P.A     | 2.92        |             |              |         | C.G.P.A     | 3.04  |             |              |         | C.G.P.A     | 3.06  |             |              |         |  |  |  |  |

| Autumn/2021 |       |             |              |         |             | Spring/2022 |             |              |         |             |       | Autumn/2022 |              |         |             |       |             | Spring/2023  |         |  |  |  |  |
|-------------|-------|-------------|--------------|---------|-------------|-------------|-------------|--------------|---------|-------------|-------|-------------|--------------|---------|-------------|-------|-------------|--------------|---------|--|--|--|--|
| Course Code | Grade | Grade Point | Credit Hours | Product | Course Code | Grade       | Grade Point | Credit Hours | Product | Course Code | Grade | Grade Point | Credit Hours | Product | Course Code | Grade | Grade Point | Credit Hours | Product |  |  |  |  |
| PHY351      | B     | 3           | 3            | 9       | PHY361      | A           | 4           | 3            | 12      | PHY471      | B     | 3           | 3            | 9       | PHY481      | B     | 3           | 3            | 9       |  |  |  |  |
| PHY352      | C     | 2           | 3            | 6       | PHY362      | C           | 2           | 3            | 6       | PHY472      | B     | 3           | 3            | 9       | PHY482      | B+    | 3.5         | 3            | 10.5    |  |  |  |  |
| PHY353      | B+    | 3.5         | 3            | 10.5    | PHY363      | C           | 2           | 3            | 6       | PHY470      | A     | 4           | 3            | 12      | PHY480      | A     | 4           | 3            | 12      |  |  |  |  |
| PHY355      | B+    | 3.5         | 3            | 10.5    | PHY364      | C           | 2           | 3            | 6       | PHY473      | B     | 3           | 3            | 9       | PHY483      | A     | 4           | 3            | 12      |  |  |  |  |
| *PHY354     | C     | 2           | 3            | 6       | PHY365      | B+          | 3.5         | 3            | 10.5    | PHY474      | A     | 4           | 3            | 12      | PHY484      | B+    | 3.5         | 3            | 10.5    |  |  |  |  |
|             |       |             |              |         |             |             |             |              |         |             |       |             |              |         |             |       |             |              |         |  |  |  |  |
| G.P.A       | 2.8   |             | 15           | 42      | G.P.A       | 2.7         |             | 15           | 40.5    | G.P.A       | 3.4   |             | 15           | 51      | G.P.A       | 3.6   |             | 15           | 54      |  |  |  |  |
| C.G.P.A     | 2.8   |             |              |         | C.G.P.A     | 2.97        |             |              |         | C.G.P.A     | 3.02  |             |              |         | C.G.P.A     | 3.09  |             |              |         |  |  |  |  |

\*PHY354-Autumn/2022

| Total G.P:                  | 404.5           | Total Cr.Hr: | 131        | C.G.P.A:                   | 3.09   | Grade:    | B               | Result:   | Qualifies       | Remarks:  |
|-----------------------------|-----------------|--------------|------------|----------------------------|--|-----------|-----------------|-----------|-----------------|-----------|
| Prepared By                 | <i>Chiragh,</i> | Checked By   | <i>J.</i>  | Controller of Examinations | <i>Chiragh,</i>  | <i>J.</i> | <i>Chiragh,</i> | <i>J.</i> | <i>Chiragh,</i> | <i>J.</i> |
| Date of Result Declaration: | 11/08/2023      | Issue Date:  | 19/12/2023 | Note:                      | University reserves the right to correct any inadvertent error that may be detected in the Proforma. |           |                 |           |                 |           |
|                             |                 |              |            |                            |  |           |                 |           |                 |           |

Course Titles &amp; Grading Scale Over Leaf

| Grade Information                 |     |    |     |             |
|-----------------------------------|-----|----|-----|-------------|
| *According to New and Old Grading |     |    |     |             |
|                                   | 100 | A  | 4   | Distinction |
| 80                                | 75  | B+ | 3.5 |             |
| 70                                | 74  | B  | 3.0 |             |
| 65                                | 69  | C+ | 2.5 |             |
| 55                                | 64  | C  | 2   |             |
| 50                                | 54  | D  | 1.5 | .....       |
| Below                             | 50  | F  |     |             |

**Pass Marks = 50 %**

Degree Awarding CGPA = 2.5

TGP / TCH = CGPA

Degree Awarding CGPA = 2.5

$$\text{TGP} / \text{TCH} = \text{CGPA}$$

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| 5 at                        | Islamabad Pakistan          |
| 6 the                       | 18th of October 2024        |
| 7 by                        | Ministry of Foreign Affairs |
| 8 No                        | APO-JTCY-IIAP-LEUC          |

Date: 18 Oct 2024



Seal/Stamp

Sherza Faisal

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## Grade Information

\*According to New and Old Grading

|    | Distinction | 4 |
|----|-------------|---|
| A  |             |   |
| B+ | 3.5         |   |
| B  | 3.0         |   |
| C+ | 2.5         |   |
| C  | 2           |   |
| D  | 1.5         |   |
| F  | —           |   |

Pass Marks = 50 %

Degree Awarding CGPA = 2.5

TGP / TCH = CGPA

## Autumn/2020

|                              |        |                              |
|------------------------------|--------|------------------------------|
| Newton's Law of Motion-I     | PHY126 | Basics Lab-II                |
| Newton's Law of Motion-II    | PHY236 | Basics Lab-III               |
| Electromagnetism-II          | PHY231 | Electromagnetism-II          |
| Linear Algebra               | PHY232 | Linear Algebra               |
| Oscillations, Waves & Optics | PHY233 | Oscillations, Waves & Optics |
| Numerical Analysis           | PHY234 | Numerical Analysis           |

## Spring/2021

|                                |        |                                 |
|--------------------------------|--------|---------------------------------|
| Basics Lab-IV                  | PHY246 | Introduction to Quantum Physics |
| Project-II                     | PHY241 | Introduction to Nuclear Physics |
| Basic Electronics              | PHY242 | Basic Electronics               |
| Differential Equations         | PHY244 | Differential Equations          |
| Probability and Random Process | PHY245 | Probability and Random Process  |

## Autumn/2020

|                              |        |                              |
|------------------------------|--------|------------------------------|
| Basics Lab-II                | PHY126 | Basics Lab-III               |
| Basics Lab-III               | PHY236 | Basics Lab-IV                |
| Electromagnetism-II          | PHY231 | Electromagnetism-II          |
| Linear Algebra               | PHY232 | Linear Algebra               |
| Oscillations, Waves & Optics | PHY233 | Oscillations, Waves & Optics |
| Numerical Analysis           | PHY234 | Numerical Analysis           |

## Spring/2022

|                              |         |                              |
|------------------------------|---------|------------------------------|
| Quantum Mechanics-II         | PHY471  | Quantum Mechanics-II         |
| Solid State Physics          | PHY472  | Solid State Physics          |
| Project-I                    | PHY4720 | Project-I                    |
| Atomic and Molecular Physics | PHY473  | Atomic and Molecular Physics |
| Physics Lab-II               | PHY474  | Physics Lab-II               |
| Physics Lab-IV               | PHY484  | Physics Lab-IV               |

## Autumn/2021

|                                   |        |                       |
|-----------------------------------|--------|-----------------------|
| Methods of Mathematical Physics-I | PHY361 | Nuclear Physics       |
| Classical Mechanics               | PHY362 | Computational Physics |
| Electromagnetic Theory-I          | PHY363 | Project-II            |
| Physical Electronics              | PHY364 | Statistical Mechanics |
| Physics Lab-II                    | PHY365 | Physics Lab-IV        |
| Circuit Electronics               | PHY366 |                       |

ATTESTED

03 OCT 2024

Attestant Director (Cons-V)

369693



HIGHER EDUCATION COMMISSION  
PAKISTAN



R.S.1000



MINISTRY OF  
EDUCATION

Pakistan

GOVERNMENT OF PAKISTAN

ISLAMABAD

2024

EDUCATION

COMMISSION

PAKISTAN

ISLAMABAD

2024

Assisted by Muhammad Moshin

Assistant Director (Cons-V)

Attestant Director (Cons-V)

Attest

**ÖSTERREICHISCHE BOTSCHAFT  
ISLAMABAD**

**Beglaubigungsregister A-Nr. 3082/2025**

Die Echtheit der nebenstehenden Unterschrift des MUHAMMAD  
MOHSIN und des Amtssiegels des Außenministeriums von Pakistan  
wird bestätigt.

Konsulargebühr gemäß TP 4 (1) KGG 1992 idgF im Gegenwert  
von EUR 80,-- entrichtet.

*Margit Loibl*

Margit LOIBL, 1. BS und Konsulin

Islamabad, am 24.04.2025







# **Registration form for International Master Program in Chemistry and Physics of Materials CPM**

## **PERSONAL INFORMATION**

Family name: Usman

First Name: Muhammad Usman

Postal Address: Use format of your country of residence: Village Dehra post office Domeli,  
Tehsil Sohawa District Jhelum

Post Code: 4960

Country: Pakistan

Phone number: +9203445100732

Fax:

eMail: Muhammadusman450@hotmail.com

Birth date: 27-09-2002

Place of birth: Jhelum

Gender: Male

Marital Status: None

Nationality: Pakistani

## **Education**

Certificate of secondary education or university entrance exam: School/College: Board of Intermediate and Secondary Education Rawalpindi

Date:

7 -11- 2021

## **University**

University/College name and address: Federal Urdu University of Arts, Science & Technology, Islamabad

Internet address of the university/ college: Kuri Model Village, Mozah 5B, near Bahria Enclave Road, Mohrian, Islamabad

Date (from to): 1-2-2019

Subject: Applied Physics

Degree(s): BS In Applied Physics

Degree date: 11-08-2023

Final grade: 3.09

Maximum grade achievable: 4.0

Minimum grade to pass: 2.0

Ranking in your class (e.g. 6th out of 45):

## **Second University**

University/College name and address:

Internet address of the university/ college:

Date (from to):

Subject:

Degree(s):

Degree date:

Final grade:

Maximum grade achievable:

Minimum grade to pass:

Ranking in your class (e.g. 6th out of 45):

## **STATEMENT OF INTENT**

Dear Members of Admission Committee,

I am Muhammad Usman, a graduate of **Applied Physics**, currently working as a **Higher Education Physics Teacher at Paragon Science College**. My primary responsibilities include **teaching Physics to intermediate (FSc) students**, supervising **weekly lab experiments**, managing **student research projects**, and organizing seminars and debates on topics related to **theoretical physics**. With a strong academic background and a passion for advanced materials science, I am eager to apply for the **Master's program in Chemistry and Physics of Materials** at the **University of Salzburg**. Throughout my Bachelor's degree, I studied fundamental subjects such as **Mechanics, Electromagnetism, Thermodynamics, Oscillation, Waves and Optics, Solid State Physics, Circuit Electronics, and Nuclear Physics**, all of which have given me a solid foundation in the principles of modern physics. My interest in material behavior at the atomic level was sparked through topics like Solid State Physics and Basic Electronics, and has only grown stronger with teaching and lab supervision experience. The Master's program at the University of Salzburg stands out for its interdisciplinary curriculum, combining physics, chemistry, and materials science. I am particularly drawn to modules such as

Nanomaterials, Quantum Mechanics for Material Sciences, Crystallography, Thin Film Technology, and the Master's Thesis and Research Project, which align closely with my academic interests and goals. I am eager to gain in-depth knowledge of material properties and contribute to innovative research in this growing field. In Pakistan, unfortunately, research infrastructure and funding in advanced materials science are quite limited. This creates challenges for students who are eager to explore this discipline in depth. Gaining admission to this program would be a dream come true, offering access to world-class laboratories, an international academic environment, and the chance to learn from experts in the field. The University of Salzburg is home to cutting-edge research groups in nanostructured materials, surface science, and solid-state chemistry, with access to modern labs and international collaborations. The city of **Salzburg**, known for its cultural heritage and breathtaking landscapes, offers a **high quality of life** and a peaceful academic atmosphere—ideal for focused study and research. Studying abroad will undoubtedly be a challenge for me, both personally and financially, but I am fully **committed to embracing this step**. I see it as an opportunity for personal growth, academic excellence, and making meaningful contributions to the field of materials science.

Thank you for considering my application.

Sincerely,  
**Muhammad Usman**

## **LANGUAGES**

If your native language is not English, please specify your ability in the English language (e.g., TOEFL test) and mention what qualifications (language certificates) you hold:

IELTS Test with 6.0 Band Overall

If your native language is not German, please specify your ability in the German language and mention what qualifications you hold:

## **RECOMMENDATION LETTERS**

Please give the names and addresses including the email addresses of two of your academic teachers who have known you well and who are willing to write recommendation letters on your behalf:

1<sup>st</sup>:

Ahmad Saeed  
[ahmed.saeed@fuuast.edu.pk](mailto:ahmed.saeed@fuuast.edu.pk)

2<sup>nd</sup>:

Dr. Aurang Zeb  
[aurangzebbabar@gmail.com](mailto:aurangzebbabar@gmail.com)

## **FURTHER RELEVANT INFORMATION -**

Add any information that might be relevant for your application.



DEPARTMENT OF APPLIED PHYSICS

**Subject: Recommendation Letter for Muhammad Usman**

To whom may concern,

I am an assistant professor at **FUUAST** and supervised **Muhammad Usman's** final year project thesis on gravitational lensing and taught him two courses of MMP (mathematical method for physics) during his Bachelor's degree in Applied Physics. Based on my close interaction with him, I confidently attest his exceptional academic abilities, passion for research, and dedication to his studies.

As his supervisor, I have been consistently impressed by **Usman's** initiative, creativity, and critical analysis skills throughout his search and completion of his thesis on gravitational lensing, he focused on the comprehensive exploration of micro-lensing as a powerful tool for the detection and analysis of planets. It is very crucial work to investigate planets specifically exoplanets to explore life on these planets.

Despite that, he is also facing challenges in balancing commitments, his involvement in diverse projects academic study, teaching at high school, performance in poetry sessions, and handling his social media artist accounts. He is a mother language poet and very famous among the young generation. But studying abroad planning could lead to being more committed and significant achievement for Usman.

Please feel free to contact me if you require any further information. Thank you.

Ahmad Saeed,

Assistant Professor,

Email: ahmed.saeed@fuuast.edu.pk

Mobile no.: +92333515847

*A. Saeed*  
ASSISTANT PROFESSOR  
Department of Physics  
Federal Urdu University of Arts  
Science & Technology  
Islamabad



**FEDERAL URDU UNIVERSITY OF ARTS, SCIENCE AND  
TECHNOLOGY ISLAMABAD**

**DEPARTMENT OF PHYSICS**

**Recommendation letter in support of Mr. Muhammad Usman S/O Muhammad Ilyas**

It is my great pleasure to write a letter of recommendation in support of **Mr. Muhammad Usman**. He was enrolled in session (2019-2023) in the BS degree at Federal Urdu University of Arts, Science and Technology Islamabad. I taught **Mr. Muhammad Usman** during BS Applied Physics. He was a regular, committed and dedicated student. His work in the class was appreciated.

I wish him best of luck

Yours sincerely,

  
ASSISTANT PROFESSOR  
Department of Physics  
Federal Urdu University of Arts  
Science & Technology  
Islamabad  
11 - 10 - 2024

**Dr. Aurang Zeb**  
**Assistant Professor**  
Physics, FUUAST, Islamabad.  
Emails: aurangzebbabar@gmail.com  
**Phone: 0092-333-5411947**