

**Impact report from local Expert:, Aligarh - Prof. Far;ukh Arjmand, S.N. Nahar**  
7/14.2018

I am regularly interacting with the participants of WSR held at Aligarh on 9<sup>th</sup> Feb 2018. Interestingly, most of the students have taken admission in M.Sc. post graduate program in A.M.U. in STEM disciplines and are aspiring to clear GRE/TOEFELE/IELTS examinations to pursue higher studies in U.S.A. We witnessed a phenomenal change in other junior students of STEM subjects in both genders at university and Women's college. A large number of students are awaiting more programs from our STEM-ER Center and are regularly inquiring about our activities particularly any conference of STEM for both genders. This interest has been instilled by the popularity of WSR in our campus. The interest of the students in STEM could be inferred by their approach to act as volunteers in upcoming STEM programs.

**I would further not hesitate to make this statement that WSR program was successful in motivating budding female scientists in India.**

**March 12, 2018: Supervised by Director Dr. Sultana N. Nahar and with help of students we celebrated Internaitonal Women's Day at the Indo-US STEM Education and Research Center of OSU-AMU**

All participants of the Aligarh WSR come together for the event. WSR participants were asked to express their future dream. Each student talked about dream of getting higher education in a STEM field, becoming someone to contribute to knowledge in STEM and contribute to the society. positions in STEM areas

- Chief Guest Prof. Qudsia Tahseen who is one of a few women in India who received the national awards by becoming the member of the three levels of National Academy of Science stated how she remained focused with family responsibilities. Guest of Honor Dr. Hameeda Tariq, First lady of AMU, spoke how she managed to be a full time physician and Prof. Sultana Nahar about importance of science and how to achieve goals. Both Prof. Tauheed Ahmad and I spoke about inspiring examples. Number of women were recognized for their scientific contributions and as emerging scientists. Refreshments were served. Pictures of the banner at the center,, audience, and one student recognition are presented below.



**Followings are the academic performances and statements of some WSR participants:**

## **1. Name: JAWERIYA ANWAR**

Qualification: BSc(Hons.) in Chemistry

Course result:

- 1) 1st Semester: CGPA 8.58
- 2) 2nd Semester: CGPA 8.08
- 3) 3rd Semester: CGPA 7.84
- 4) 4th Semester: CGPA 7.89
- 5) 5th Semester: CGPA 7.81
- 6) 6th Semester: Result awaited

Awards:

- 1) Awarded as STATE LEVEL CHILD SCIENTIST in 2011 by National Child Science Congress.
- 2) Received MOST DISCIPLINED GIRL AWARD in 2014 by Al Barkaat Public School, Aligarh.

Impact of the project:

This project has increased my interest in Science, it motivated me to know more about Universe. It also has given me enthusiasm to give time for reading to solve the mysteries of universe.

I want to do Post Graduation and then PhD in CHEMISTRY, so that I would be able to grasp more and more knowledge in Science.

I am very much interested in making my career in STEM field.

## **2. Aisha Naz: She sends her performance report for the semester**

# Aligarh Muslim University, Aligarh

## CERTIFICATE OF GRADE

B.Sc. (Hons.) VI Semester EXAMINATION, (2017-18) (AH)

( CORE SUBJECT: CHEMISTRY )

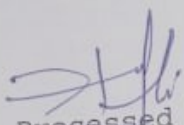
Faculty No : 15CHB420  
 Exam Roll No. : 61470  
 Name : AISHANAE  
 Elective Subjects : ZOOLOGY & BOTANY

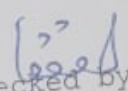
Enrolment No: GH1064

| CODE    | TITLE OF PAPER                 | CREDITS | GRADES      | CREDIT POINTS |
|---------|--------------------------------|---------|-------------|---------------|
| CHB651  | Physical/Organic Chemistry     | 2       | A           | 16            |
| CHB652  | Inorganic/Analytical Chemistry | 2       | A+          | 18            |
| CHB661  | Physical Chemistry-DC          | 2       | A+          | 18            |
| CHB662  | Organic Chemistry-DC           | 2       | A           | 16            |
| CHB663  | Inorganic Chemistry-DC         | 2       | A+          | 18            |
| CHB673  | Inorganic Chemistry-AE         | 4       | A           | 32            |
| CHB674  | Analytical Chemistry-AE        | 4       | B+          | 28            |
| CHB6P1  | Lab-Physical Chemistry-DC      | 2       | O           | 20            |
| CHB6P2  | Lab-Organic Chemistry-DC       | 2       | O           | 20            |
| CHB6P3  | Lab-Inorganic Chemistry-DC     | 2       | O           | 20            |
| Total : |                                | 24/24   | SGPA: 8.583 | 206           |

| SEMESTER | EARNED CR/MAX CR | CREDIT POINTS | SGPA        |
|----------|------------------|---------------|-------------|
| I        | 24/24            | 166           | 6.917       |
| II       | 24/24            | 178           | 7.417       |
| III      | 24/24            | 194           | 8.083       |
| IV       | 18/18            | 140           | 7.778       |
| V        | 26/26            | 218           | 8.385       |
| VI       | 24/24            | 206           | 8.583       |
| Total    |                  | 1102          | CGPA: 7.871 |

Result : Graduated  
 DIVISION : FIRST

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 (Examinations)  
 Date : 08 JUL 2018

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3. Nida Khan: Nida sends her outstanding academic performance.

#### 4. Rifa Khan

**Aligarh Muslim University, Aligarh**  
**CERTIFICATE OF GRADE**

B.Sc. (Hons.) VI Semester EXAMINATION, (2017-18) (AH)  
 ( CORE SUBJECT: CHEMISTRY )

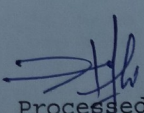

Enrolment No: GF1702

Faculty No : 15CHB423  
 Exam Roll No. : 61472  
 Name : NIDA KHAN  
 Elective Subjects : ZOOLOGY & BOTANY

| CODE    | TITLE OF PAPER                 | CREDITS | GRADES      | CREDIT POINTS |
|---------|--------------------------------|---------|-------------|---------------|
| CHB651  | Physical/Organic Chemistry     | 2       | A+          | 18            |
| CHB652  | Inorganic/Analytical Chemistry | 2       | A+          | 18            |
| CHB661  | Physical Chemistry-DC          | 2       | O           | 20            |
| CHB662  | Organic Chemistry-DC           | 2       | A           | 16            |
| CHB663  | Inorganic Chemistry-DC         | 2       | A+          | 18            |
| CHB672  | Organic Chemistry-AE           | 4       | A+          | 36            |
| CHB673  | Inorganic Chemistry-AE         | 4       | A+          | 36            |
| CHB6P1  | Lab-Physical Chemistry-DC      | 2       | O           | 20            |
| CHB6P2  | Lab-Organic Chemistry-DC       | 2       | O           | 20            |
| CHB6P3  | Lab-Inorganic Chemistry-DC     | 2       | O           | 20            |
| Total : |                                | 24/24   | SGPA: 9.250 | 222           |

| SEMESTER | EARNED CR | MAX CR  | CREDIT POINTS | SGPA        |
|----------|-----------|---------|---------------|-------------|
| I        | 24        | 24      | 176           | 7.333       |
| II       | 24        | 24      | 186           | 7.750       |
| III      | 24        | 24      | 190           | 7.917       |
| IV       | 18        | 18      | 158           | 8.778       |
| V        | 26        | 26      | 230           | 8.846       |
| VI       | 24        | 24      | 222           | 9.250       |
| Total    |           | 140/140 | 1162          | CGPA: 8.300 |

Result : Graduated  
 DIVISION : FIRST WITH DISTINCTION

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 Date : 08 JUL 2018

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WSR has proved to be a great motivation for me. The workshop and the lectures have helped me to a great degree and I hope that the enthusiasm that attending it, instilled in me, remains forever.

Here is a brief progress report:

- I have graduated with a CPI of 9.98 in Computer Engineering.
- I am now a SSGSA scholar that aims to provide mentorship and financial help to students who want to pursue their higher education from abroad.
- I appeared for TOEFL and secured a score of 108/120.
- I secured a GATE score of 544 on a scale of 1000.
- I applied for MS in Informatics at TUM, Germany and got selected.

As part of my future plans I would be joining MS in Germany (TUM ). My session starts from October, 2018. So I will be leaving for Germany in end September.

5. Summya Khan:'s academic performance:

## **6. Nargis Bano:**

Asslamualekum

My name is Nargis bano. I have done my B.Sc (H) and opted zoology as my main subject. Result has not come yet but the list that shows whether you are pass or fail has come and I am graduated now. WSR influenced me a lot as many of us have a dream to go abroad for higher education and I am also one of them but I don't know the path that has to be taken to go abroad but after attending the WSR I got to know many things like financial support, how to choose a college, scholarships, exams and many more. Their stories have leaved great impact on me especially of Nahar mam.

I am a nature lover and always try to find out how systems work, interactions between biotic and abiotic things and especially how body systems work ,react to a thing its physiology, anatomy ,and anything related to it.

Before attending WSR there was a moment when I decided to leave my profession as I was so much disturbed and don't know what to do next and that time I was searching for MBA, LLB and other which I really don't like but I have to for my better future . But after attending WSR I realized that none of the courses other than STEM are better for future and now I have taken zoology as my profession and I am much focused on it . In the coming future I want to do research on cancer and stem cells.

The most important thing is abroad education as I can't not afford it financially; there I got to know how to apply for scholarships and from where we can get them.

**THANK YOU WSR MENTORS AND TEAM MEMBERS.**

# Aligarh Muslim University, Aligarh

## CERTIFICATE OF GRADE

B.Sc. (Hons.) VI Semester EXAMINATION, (2017-18)

(AH)

( CORE SUBJECT: CHEMISTRY )

Enrolment No: GH3166  
 Faculty No : 15CHB445  
 Exam Roll No. : 61485  
 Name : SUMAYYA KHAN  
 Elective Subjects : ZOOLOGY & BOTANY

| CODE    | TITLE OF PAPER                 | CREDITS | GRADES      | CREDIT POINTS |
|---------|--------------------------------|---------|-------------|---------------|
| CHB651  | Physical/Organic Chemistry     | 2       | B+          | 14            |
| CHB652  | Inorganic/Analytical Chemistry | 2       | A           | 16            |
| CHB661  | Physical Chemistry-DC          | 2       | A           | 16            |
| CHB662  | Organic Chemistry-DC           | 2       | A           | 16            |
| CHB663  | Inorganic Chemistry-DC         | 2       | A+          | 18            |
| CHB672  | Organic Chemistry-AE           | 4       | A           | 32            |
| CHB673  | Inorganic Chemistry-AE         | 4       | A           | 32            |
| CHB6P1  | Lab-Physical Chemistry-DC      | 2       | O           | 20            |
| CHB6P2  | Lab-Organic Chemistry-DC       | 2       | O           | 20            |
| CHB6P3  | Lab-Inorganic Chemistry-DC     | 2       | O           | 20            |
| Total : |                                | 24/24   | SGPA: 8.500 | 204           |

| SEMESTER | EARNED CR/MAX CR | CREDIT POINTS | SGPA        |
|----------|------------------|---------------|-------------|
| I        | 24/24            | 178           | 7.417       |
| II       | 24/24            | 176           | 7.333       |
| III      | 24/24            | 180           | 7.500       |
| IV       | 18/18            | 138           | 7.667       |
| V        | 26/26            | 222           | 8.538       |
| VI       | 24/24            | 204           | 8.500       |
| Total    | 140/140          | 1098          | CGPA: 7.843 |

Result : Graduated  
 DIVISION : FIRST

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 Date : 08 JUL 2018

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Salman PROGRESS REPORT

Date: 12/07/2018

To: The local expert WSR workshop

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**From:**

## **Purpose**

To discuss the impact of WSR workshop conducted in AMU by the APJ Abul Kalam STEM ER centre of OSU-AMU and the impact of choosing STEM field on me.



## **Progress**

Going down the memory lane it's already been 6 months since I participated in the WSR workshop. I was an undergraduate pursuing chemistry honors back then. Science had always been my area of interest from childhood. I managed to have several **proficiency awards** at the primary level and luckily they were all in **STEM** fields. At the intermediate level I was awarded with **Begum Tara Rasheed Award** for securing **highest** marks in science faculty. During my undergraduate course i.e. Chemistry honors, I had been a sincere student with keen interest in Physical and Analytical Chemistry. I secured **9.3 cgpa** in the Vth sem which included spectroscopy as a major part of all subjects. By the grace of God, few days ago my final result declared me as a **chemistry graduate with first division and distinction**.

As a WSR participant, I was deeply motivated and felt grateful. Being a part of this workshop I happened to meet some really great personalities as **Dr. Sultana Nahar, Prof. Karen Irwing, Dr. Anil Pradhan, Dr. Nasreen Haque, Dr. Farrukh Arjamand**. In an era when women are increasingly prominent in medicine, law, and business, why are there so few women scientists and engineers? This workshop explained me the causes that lead to such a situation and encouraged me to pursue a career in the STEM field with a better and much clearer vision.

I cleared **MSc. Biotechnology entrance** and got admitted in JMI, New Delhi, which is a central university too.

## **Plan for the next two years**

I am planning to prepare for Junior Research Fellowship Exam and GRE besides this. I am still not very sure about other exams I am eligible for but I am constantly researching on the same.



## 8. Mahwash Aftab: PROGRESS REPORT ON STEM ROADSHOW



MAHWASH AFTAB

BSc H (Mathematics)

Aligarh Muslim University

This report is about the workshop 'Women in STEM Roadshow' held on 23<sup>rd</sup> and 24<sup>th</sup> february 2018 at Aligarh Muslim University. The International experts present in the workshop were:

Dr.Sultana N. Nahar

Dr. Karen Irving

Dr. Nasreen Haque

Dr. Anil Pradhan

And our mentors were:

Dr.Farukh Arjmand

Dr.Esmat Laiq

The workshop proved to be beneficial for all the participants and was highly successful in achieving its objective of encouraging young women to pursue opportunities in the fields of science, technology, engineering and mathematics (STEM).

### IMPACT OF THE WORKSHOP-

Earlier I haven't really thought much about applying in a foreign country because of lack of much information and guidance but after attending the workshop I realised there are great academic and career prospects for us abroad. Our international experts and mentors really helped us a lot. They told us about the right procedure of how we should apply for studying in USA and motivate us to continue our career in STEM subjects. I have been working on these lines and sorting out various options.

### COURSE RESULT-

I have completed my graduation in BSc(H) Mathematics with 8.2 cgpa First division with distinction.

### FUTURE AIM-

Aim of my life is to continue my studies in maths and to become a maths professor and to research in USA. I also want to motivate other girls to take up STEM subjects especially maths because these are the areas which represent an important source of professional employment opportunities in India. This will not only help them to make a better future but will also help in the upliftment of the society.



Dr Farukh Arjmand



Dr Sultana N Nahar



Dr. Anil Pradhan



Dr Esmat Laiq

Dr. Karen Irving



Our Team