



Mohammad Faizan Beg
Chemistry
Indian Institute of Technology, Bombay
Specialization: 5 Yr Integrated MSc in Chemistry

101030021
UG Second Year
Male
DOB: 25th July 1992

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	7.27
Intermediate/+2	CBSE	Campion School	2010	87.00
Matriculation	CBSE	Campion School	2008	90.00

Academic Achievements

- Was in **top 1%** of the students who took the prestigious examinations of **IIT JEE and AIEEE 2010**.
- Was among the **top 80 students** of the country who cleared the first phase of **KVPY 2010** which is given to the students having **exceptional attitude for research** in pure sciences.
- Scored **highest percentage marks in Science and Math's** (97.5/100) in the matriculation exam among the 300 students in the school
- Scored **highest marks in Physics** (95/100) in 10+2 level examination among 150+ students in the school.
- Attended the **Vigyan Jyotish Shivr** (Vijyoshi Camp) 2010, organized by **Indian Institute of Sciences**, Bangalore, which aims to **promote research in India**.

Positions of Responsibility

- The Social Secretary of Hostel 3, IIT BOMBAY (2011)** *(July 2011-present)*
Is one of the two social secretaries of a hostel with 500+ inmates. (Including both seniors and freshmen)
 - Innovated the idea of organizing all the festivals, **promoting social integrity & the culture** of the hostel.
 - Co-ordinated with the hostel council to **ensure the maximum participation** of hostelites in all the institute level events and competitions.
 - Initiated the idea of **Hostel fest** and **celebrating more festivals** on a mass level.
- Mood Indigo 2011 Marketing Co-ordinator (Food & Beverage)** *(April 2011-December 2011)*
Annual cultural festival of IIT Bombay having a budget of INR 15 million and is the biggest college culture fest of Asia
 - **Contacted a number of companies and firms** and negotiated with them for association with Mood Indigo.
 - Promoted **tie-ups with food brands**, increasing the media and publicity and **innovated the idea of food fest**.
 - Managed the **food distribution** to a **student work force** of about 800, **laborer and worker** team of more than 200 and about 200 **judges and artists** of various events and competitions.
- Techfest 2012 Publicity, Creatives and Competitions Co-ordinator** *(July 2011-present)*
Annual technical festival of IIT Bombay which is the biggest tech fest of Asia having more than 50 national level competitions and workshops
 - **Designed posters**, backdrops and standees displaying various competitions in the fest and looked after the different **creative aspects** of the fest.
 - Organized the zonal elims of "**Nexus**" which is an **international robotics competition** held in Mumbai.
 - Organized and publicized the competition "**Ideate**" which aims to discover the best ideas and innovations from across the nation that would reform and revolutionize the present day India.

- **Member of the Core-Group of Chemistry Department annual Magazine** *(July 2011-present)*
Design Department
 - Is the member of the 10-membered core group team which is responsible for the collection, editing and representing of various articles in the **international publication** representing chemistry dept. of IIT Bombay to all the national and international delegates and also an **in-house publication** which will be a magazine “for the students – by the students”.
 - Is handling the **design and layout** of both the magazines.

Computing Skills

- Designing Soft wares : **Adobe Photoshop**
- Chemistry related software's: **Gromacs , Auto Dock**
- Programming languages : **C++**
- Basic knowledge of **MATLAB**

Extra-Curricular Activities

- Took part in several **technical competitions** of IIT Bombay such as “F1 Car Racing” & “Line Follower”.
- Took part in several **dramatics competitions** at the hostel level.
- **Mentored the first year students** for a street play “Red Alert” which was performed in the inter hostel competition during **Freshiezza 2011-The Annual Cultural fest for freshmen**.
- Contributed in the making of prods for the **Annual Performing Arts festival 2011** of IIT Bombay.
- Visited villages outside Mumbai and explained the villagers the importance of fuel-efficient cooking systems as a part of the **National Service Scheme (NSS) programme**.

Courses Undertaken/Done

- Calculus, Linear Algebra and Differential equations.
- Introduction to Electrical and Electronics Circuits
- Economics
- Experimental and Measurement Laboratory
- Data Interpretation and Analysis
- Computer programming and Utilization

Key Academic Projects

- **STUDYING THE DEAMINIZING CHARACTERS OF PROTEINS** *(Aug 2011-present)*
 - Is doing a computational project under Prof.Dr.Ruchi Anand, Chemistry Dept., IIT Bombay which involves **Docking of a protein** with different ligands through **Auto Dock software**, & to study **deaminizing characters**. Main aim is to find the best substrate for an enzyme & also its best binding configuration.
- **COMPUTATIONAL STUDY OF PROTEIN CONFORMATIONS** *(May-June 2011)*
 - Did a small summer training project under Prof. Dr. S Durani, Chemistry Dept., IIT Bombay. Learnt the use of **Gromacs software** for doing the **simulation systematically** & studying computationally the different conformers of proteins in dynamic states. During the actual simulation run, Gromacs produces a trajectory file, describing the movements of the atoms over time. This trajectory file can then be analyzed or visualized with a number of supplied tools.