

Surbhi Kumari Jain

Metallurgical Engineering & Material Science Indian Institute of Technology, Bombay

 ${\bf Specialization: Metallurgical\ Process\ Engg.}$

09D11019

UG Third Year(Dual Degree)

Female

DOB: 03/01/1991

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2011	6.97
Intermediate/+2	Rajasthan Board of Secondary Education	Shiv Jyoti Senior Secondary School, Kota	2008	74.00
Matriculation	Rajasthan Board of Secondary Education	Govt. Senior Secondary Scool, Lawa	2006	91.17

Academic Achievements

- Secured an All India Rank 2480 (99.35 percentile) in IIT-Joint Entrance Exam -2009
- Cleared All India Engineering Entrance Exam (year 2008 & 2009) with 99.99 percentile
- Secured 2nd position at district level in Rajasthan Board Secondary Examination-2006

Achievements and Awards

- Awarded MCM Scholarship continuously for 3 years for appreciable academic performance
- Recipient of Rastriya Pratibha Chatravriti 2007 and 2008 for excellent academic performance in Secondary School Board Examination
- Recipient of SSS brilliant student medal, awarded by Mrs. Pratibha Patil, President of India in 2007
- Awarded Gargi Puraskar by Rajasthan State Govt. for excellent academic performance

Internships

Hindustan Zinc Limited, Chittor, Rajasthan

June, 2011

- studied the process of Zinc production through pyro-metallurgical path involving sinter plant, Imperial Smelting furnace, Ausmelt, Lead and Zinc Refinery and Sulphuric Acid plant
- Studied pressure vessels in details

iDiscoveri Education, Gurgaon

Dec, 2010

- Curriculum development of learning materials used in the schools following XSEED program
- Created lesson plans for teachers and workbooks and textbooks for students
- Used new ideas like conducting activities in the class, making concept learning easier and more interesting for the students

KEY ACADEMIC PROJECTS:

• IIT BOMBAY- MINI U.I.D Project

Autumn 2009

(Guide: Prof. Deepak Phatak, Computer Science & Engineering, IIT Bombay)

Used C++ to develop a program which took fingerprints of residents of IITB and allotted a unique identity to each person. The program could be used for attendance purpose

• Study of the structure failure measures taken in building a mega structure

Autumn 2010

(Guide: Prof. Narsimhan, MEMS, IIT Bombay)

Prepared a presentation with a 3-D model on Rio-Antirion Bridge, Greece and studied the mechanics involved in building the mega structure and the measures taken to resist structure failure

• MATLAB project

Autumn 2010

(Guide: Prof. N. Vishwanathan, MEMS, IIT Bombay)

Using MATLAB worked on a problem involving transport phenomenon fundamentals and presented a demonstration on the same

Study of slip by edge dislocation

Spring 2010

(Guide: Prof. Ajay Panwar, Metallurgical & Material science, IIT Bombay)

Technical Skills

- Tools: Photoshop, MS Office 2003/2007/2010 (Word, Excel, PowerPoint), MATLAB, Scilab
- **Programming Languages**: C++, HTML

Positions of Responsibility

- General Secretary, Metals & Materials Association, Metallurgical Engineering & Material Sciences, IIT
 Bombay

 [March '11-Present]
 - Supervising the work of **18 member team** of **Padarth**, Technical Festival of the Department of Metallurgical Engineering & Material Sciences (reaching approximately 15000 students annually)
 - Ensure the smooth functioning of the **Dhatuki team**, the department newsletter
 - Supervising Materials Research Symposium, provides ample opportunities to all students and researchers from industries and R&D organizations around the country to come together and present their authentic work in the field of material research.
 - Initiate and conceptualize events like Kurta Day, Formal Day, Department Picnic, Freshmen orientation, Valedictory function etc. catering to **more than 700 students** to promote student-student and student-faculty interaction in the department.
- Hostel Mess Secretary,
 - Part of a four member apex student body
 - Supervising the work of 15 mess workers and ensure availability of good food quality in the hostel mess, catering to 500 students.
- Coordinator, Media and Marketing, Techfest 2010, Asia's biggest technical college festival
 - Handled the media and publicity of the event.
 - Contacted companies and other financial institutions for marketing of the event
- Journalist, Aawaaz, IIT Bombay, Institute newsletter
 - Gathered news regarding various events held in the institute.
 - Wrote articles on various matters published in the newsletter

Courses Undertaken

- Computer Programming and analysis
- Calculus, Linear Algebra
- Electricity and Magnetism, Basic Schrödinger's Equation, Organic Chemistry, Modern Physics
- Theory of machine design
- Micro and Macro Economics, Sociology(ongoing), Statistics and Probability

Extra Curricular Activities

- Awarded the **hostel PAF colour** in appreciation of PAF management team
- Represented hostel in the Kho-Kho General Championship
- Performed a street play in Hiranandani, Mumbai, creating public awareness regarding increasing cell tower radiations of mobile phones
- Secured 3rd position in material scavenger hunt organized as a part of Padarth 2010, the annual fest of Metallurgical Engineering and Material Science, IIT Bombay
- Stood first in Debating competition at district level & participated in many state level events
- Stood 4th in Advertisement-making General Championship
- Performed in the play 'Zoon' in the **Performing Arts Festival (PAF) 2010** as part of the dramatics team, stood 2nd in the event
- Stood first in T-shirt making competition in **Padarth 2011 (among 500 participations)**