



**Anvita Kamble**  
**Metallurgical Engineering & Material Science**  
**Indian Institute of Technology, Bombay**  
**Specialization: Ceramics & Composites**

**10D110038**  
**UG Third Year(Dual Degree )**  
**Female**  
**DOB: 08/12/1992**

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2012	6.76
Intermediate/+2	CBSE	Atomic Energy Central School,Indore	2010	84.80
Matriculation	CBSE	Atomic Energy Central School,Indore	2008	94.00

#### ACADEMIC ACHIEVEMENTS

- Secured an All India Rank - 846 in **IIT-JEE, 2010.**
- Secured an AIR-3876 and State Rank-168 in **All India Engineering Entrance Examination, 2010.**
- Secured State Rank-38 in **Madhya Pradesh Pre-Engineering Test (MPPET),2010.**
- Scored 132/200 in **Maharashtra Common Entrance Test (MHT-CET),2010.**
- Secured an AIR-343, City rank-3 in **National Science Talent Search Examination (NSTSE), 2005.**
- Secured AIR-2927 in International Maths Olympiad (2008), AIR- 2135 in National Cyber Olympiad(2008) and AIR- 2889 in National Science Olympiad (2008).

#### AWARDS AND SCHOLARSHIPS

- Awarded by merit certificate for being among **top 0.1%** students in India for English in 10<sup>th</sup>, CBSE-2008.
- Awardee of **CBSE Merit Scholarship** for excellent performance in 10<sup>th</sup> CBSE Board Examination, 2008.
- Recipient of the prestigious **National Talent Search Examination (NTSE-2008)** scholarship.
- Awarded by a **silver medal** in felicitation function of Atomic Energy Education Society by honorable **Mr. S. Banerjee, Chairman, Department of Atomic Energy** for excellent academic performance among all Atomic Energy Central Schools in India.

#### INTERNSHIPS

##### **Raja Rammana Center for Advanced Technology, Indore**

May-July, 2011

- Underwent training in Laser Materials Processing Division under guidance of Mr. Rakesh Kaul and Mr. P.Ganesh, Scientific Officer, LMPD,RRCAT.
- Involved in specimen preparation for metallographic examination, micro structural characterization of laser welds and braze joints, fracture testing and micro hardness measurement of different materials.

#### KEY ACADEMIC PROJECTS

- Characterization of ceramic materials** December 2011-present

(Guide: Prof. Parag Bhargava, Metallurgical Engg and Material Science, IIT Bombay)

Carrying out a detailed analysis of ceramic materials used in the shell of investment casting process and IR ceramic heaters. Aim is to find an effective & economic way to reuse the shell material being wasted in tons every time.

- Plasma Spray Coating and applications** May 2012-present

(Guide: Prof. Somnath Basu, Metallurgical Engg and Material Science, IIT Bombay)

Studying actual process, parameters involved, sample preparation, examination of coating and applications specially dental implants.

- Group project on Die Steel** Spring 2012

(Guide: Prof. Parag Bhargava, Metallurgical Engg and Material Science, IIT Bombay)

Prepared the sample and analyzed its composition, hardness with the help of microscopy, X-Ray diffraction, phase analysis, SEM/EDAX etc and compiled the results.

- **IIT Bombay Hospital Management Project** Spring 2011  
(Guide: Prof. R K Joshi, Computer Science & Engineering, IIT Bombay)  
Used C++ to develop a program which maintained records of the patients and doctors and performed various operations on them like creating, deleting, modifying, searching the records etc.
- **Presentation on Smart Fluids** Spring 2011  
(Guide: Prof. Ajay Panwar, Metallurgical & Material science Dept, IIT Bombay)  
Presented what smart fluids are and their types like Electrorheological, Magnetorheological and Photorheological fluids, applications and examples in daily life.
- **Study of Negative Poisson's ratio** Spring 2011  
(Guide: Prof. Ajay Panwar, Metallurgical Engg & Material science, IIT Bombay)  
Made a working model displaying negative Poisson's ratio and found its Poisson's ratio.
- **Analysis of structural/mechanical aspects of Brooklyn Bridge, Manhattan** Autumn 2011  
(Guide: Prof. K. Narsimhan, Metallurgical Engg & Material science, IIT Bombay)  
Carried out a study and presented various aspects of the bridge like architecture, design, materials used and their significance in making of the bridge. Also made a 3D model of the bridge.

## TECHNICAL SKILLS

- **Tools:** MS Office 2003/2007/2010 (Word, Excel, PowerPoint), Windows XP/7.
- **Programming Languages:** C and C++

## POSITIONS OF RESPONSIBILITY

- Was the **School Captain** for girls in Atomic Energy Central School, Indore.
- **Coordinator in Techfest-2012, IIT Bombay's technological festival**
  - Contributed for the smooth conduct of the Magneto Competition. Handled several organizers and managed the entire three-day event.
- **Organizer in Mood Indigo-2010, Asia's biggest cultural festival**
  - Handled the work under competitions department and helped in various arrangements.
- **Organizer in Padarth, Annual festival of metallurgy department, IIT Bombay**
  - Helped in organizing the exhibitions and workshops conducted.
- **Organizer in Techfest-2011, IIT Bombay's technological festival**
  - Contributed for the smooth conduct of the night shows of techfest, the main attraction.

## EXTRA CURRICULAR ACTIVITIES

- Active member of the **Materials Outreach Programme**, an initiative of the Metallurgical and Material Science department. Involved in trying out new and catchy experiments to be presented in different schools in order to create awareness and enthusiasm for material science.
- Actively played **Badminton** taken as NSO in the first year of IIT Bombay.
- Stood **3<sup>rd</sup>** in the **T-shirt painting competition** using natural colours in IIT Bombay.
- Stood **1<sup>st</sup>** in Bhartiya Sanskruti Gyan Pariksha conducted by Gayatri Vidyapeeth, Haridwar.
- Twice being awarded by the title of "**Best Library Reader**" and received many prizes in **Hindi Essay** and **Calligraphy Competition** at school level.
- Helped in the making of sets for our hostel performance in the **Performing Arts Festival (PAF) 2010**.
- Created Lord Ganesha's idol with Powai lake's clay in **EcoGanesha Making General Championship**.