

FINANCIAL CERTIFICATION

- Undertaking **Minor in Department of Applied Statistics and Informatics.**
- Cleared **5 papers of NCFM:**
 - Interest Rate Derivatives (96%)
 - Equity Derivatives (93%)
 - Investment Analysis and Portfolio Management (91%)
 - Financial Markets (91%)
 - Options Trading Strategy Module (90%)
- Appearing for **FRM** in Nov 11 and **CFA Level-1** in Dec 11

RESEARCH EXPERIENCE / SELECT PROJECTS:

Enumerative Combinatorics:

(May 11 – to date)

TIFR Bombay (Prof.Amitava Bhattacharya, Department of Mathematics)

Researching on Roger-Ramanujan, Gollnitz-Gordon Partition Identities and Stanley and Elder Partition Theorems to formulate new intriguing theorems. **Working on publishing a paper** on the same.

Gray Code Algorithms:

(July 11-to date)

IIT Bombay (Prof.Ajit Diwan, Department of CSE)

- Working on so far unsolved problem of finding Gray Code Algorithms for various combinatorial problems using the principles of constructive combinatorics and regression statistics.
- Project to be granted **URA (Undergraduate Research Award)** on completion. Potential for publication of paper on successful formulation of algorithm.

Low Cost Optical Tweezer:

(Dec 10)

IISc Bangalore (Prof. Vasant Natranjan, Department of Physics)

- Fabricated **affordable optical tweezer around 20% cheaper** than the market model.
- Innovatively replaced the photodiode component with QPD used in regular CD ROM drives and used optimal cost-effective objective lens.

LabVIEW Simulation Programming:

(Jan 11 - to date)

IIT Bombay (Prof.Tapanendu Kundu, Department of Physics)

Designed complex laser optics simulation programs using sophisticated laboratory software LabVIEW.

Digital Voice Recorder:

(May 10 – Jul 10)

Funded by Electronics Club, IIT Bombay

Led a 4 member team to design codes for microcontroller, ADC and SD memory cards to record and playback voice successfully.

LEADERSHIP

Internship Coordinator:

(2011 – 2012)

- Elected member of a *team of 24* responsible for summer and winter internships of 1500 students.
- Role includes negotiating offers with companies and universities, planning internship selection schedules and smooth implementation of the same.

Hostel Debate Secretary:

(2010-2011)

- Rejuvenated the hostel debating culture by organizing regular debating competitions and speaking workshops.
- Regularly conducted Group Discussion sessions for final year students in the hostel during placement season.
- Co-edited hostel magazines on the occasions of valedictory function of passing out students and freshmen welcome.

Chief Editor, The Spherical Cow :

(2011 – 2012)

(Department of Physics Blog)

- Conceptualized the first ever department blog.
- Creatively innovated and successfully publicized to achieve instant popularity for the blog.

ACADEMIC ACHIEVEMENTS

- Recipient of **National Talent Search Examination Scholarship (NTSE)** (06-07)
- Selected in **top 300** students nationwide for the second level of **Physics Olympiad** (08-09)
- Secured **1st position in nation** in All India Open Mathematics Scholarship Examination and awarded free Singapore trip in prize money. (06-07)
- Secured **10th position at national level** and **1st position from Maharashtra** state in National Science Talent Search Examination. Stood **5th in Physics** and **8th in Mathematics** from the nation. (04-05)
- Secured **4th position** and **7th position** from the state in Maharashtra Talent Search Examination. (04-05 and 05-06)
- Awarded **silver medal** in Dr. Homi Bhabha Young Scientist (senior) examination (06)

EXTRA-CURRICULAR ACTIVITIES

Foreign Languages	<ul style="list-style-type: none">• Japanese
Social Work	<ul style="list-style-type: none">• Volunteer for classroom and non-classroom (marketing) activities of Teach For India
Debate	<ul style="list-style-type: none">• 1st in IIT Bombay Debate Open and elocutions at freshizza, IIT Bombay• Represented IIT Bombay in 5 national debate tournaments
Music	<ul style="list-style-type: none">• Cleared four exams in Hindustani Classical Music• Proficient in playing harmonica.
Creative writing	<ul style="list-style-type: none">• Three personal blogs (prose + poems + cooking)
Sports	<ul style="list-style-type: none">• Enthusiastic Squash and Badminton Player• Represented Aurangabad district for under 18 chess championship at state level
Others	<ul style="list-style-type: none">• Passionate reader of Economic Times and spiritual books.