**awards and achievements**

* Topped the department in semester 3 with an **SPI of 9.88**.
* Got **AA in economics** (basics of micro-macro economics)
* Runner up at **fresher’s debate open**, IIT Bombay 2011
* Was awarded **Merit cum Means** scholarship by IIT Bombay
* Was awarded certificate of excellence in Mathematics and English for being among **top 0.1%** out of over 10 lakh students who had appeared in CBSE 12 (2010 – 2011)
* Was conferred scholarship by Mission Excellence, Madhya Pradesh, **based on the quality of observations made** during the science tour.
* Was awarded certificate of excellence in Mathematics and Science for being among **top 0.1%** out of over 12 lakh students who had appeared in CBSE 10 (2008 – 2009)
* **Topped District** in CBSE higher secondary exam, 2011 as well as CBSE high school exam,2009

**Internships And projects undertaken**

**Current Project – Investigating Packing Density of Ultrafine Powders** (July 2012-)

Guide – Prof. Prakash Nanthagopalan

* With the help of **Puntke test**, packing density of various binary and ternary compositions under both superplasticizer and water is established.
* Using **Matlab and Origin**, ratio of constituents which will yield maximum packing density is established.
* This project will then move on to design high strength concrete

**Summer Intern – Analysis of Concrete Properties** (May-June 2012)

Guide – Prof. Prakash Nanthagopalan

* Read and presented **exhaustive set of booklets** pertaining to Concrete Mix Design , Steel Reinforcement , Steam curing , Durability , Repair work
* Read various **scientific papers** related to how packing density affects properties of concrete
* Examined and **executed popularly adopted construction methods** and practices like Mini Slump test, Puntke Test, Mortar mixing, Concrete mixing.
* Presented summer intern research in **Poster Symposium 2012** conducted by SPUR,IIT Bombay

**Technoholi: Cardboard Vehicle (**March 2012)

* Designed a moving vehicle **developed entirely of paper** and cardboard which was able to sustain weight **of 80 kg** and could be manually pushed to cover long distances in short time
* Were among **top 3 teams** that could actuate this concept into reality.

**Line Follower Switch Control Bot** (October 2011)

* Made color sensors based on LED and integrated it to microprocessor
* Bot could detect white line on the black surface and was able to run on it
* It was able to detect crisscrossed paths of white lines.

**Techone Project - Remote Control Bot** (September 2011)

* Microprocessor(arduino) , IC(L293D) , RC circuit were integrated to the chassis
* It had the ability to move to/fro and take rotations(differential mechanism)
* Were among **top 20 teams** who could complete the task among 200 teams of IIT B
* The boat was able to run through various terrains(plane, slope, zigzag road, jump) and surface(tiles, soil)

**Science Tour : Vigyan Manthan Yatra (**December 2009)

* Interacted with **eminent scientists and professors** of WIHG, FRI, IIT Roorkee, and ONGC, Dehradoon on a science tour arranged for merit students by Govt. Of Madhya Pradesh
* Was awarded scholarship based on the quality of observations made.

**courses undertaken**

## Department core courses like Structural Mechanics, Hydraulic Engineering, Surveying, Solid Mechanics and Fluid Mechanics

* **Additional learning** courses like Online Marketing, Environmental Studies, Micro-Economics, Macro-Economics
* **Useful** courses on Data Analysis and Interpretation, Experimental and Measurement Lab, **computer programming and utilization** (C++, Java , HTML,MYSQL ), Advanced Mathematics ( Calculus, Linear Algebra, Differential Equation ), Introduction to Electrical and Electronics Circuits
* Have **applicative experiences** in Hydraulic Design Lab, Surveying Lab, Fluid Lab , Heavy Structure Lab, Material Lab , Mechanical Workshop .
* Completed online course on “**Negotiation for Growth**” dedicated on dealings and negotiations conducted by Sunstone business school.

**positions of responsibility & Extra Curricular Activities**

* **Media Coordinator** at Mood Indigo 12 (April –Dec) – Coordinated with **reputed journalists** to get a good coverup of events at Mood Indigo across the nation via online/paper/news agency. **Co-edited** Bombay Times' Mirage, newsletter of Mood Indigo for 2012 with readership of over 1 lakh people.
* **Hostel Debating Secretary** (August 13 , 2012 onwards) - Arranged workshops , sessions and intra hostel events like Group Discussion, Debates with the help of professionals, alumni and seniors.
* **Chief Organizer** of felicitation function in June 2012 - Planned and effected function to celebrate selection of junior students into IIT managing budget of over **1 lakh INR**.
* **Reporter, Insight** (Student’s Media Body, IITB)(Jan 2012 onwards) - Raised various problems and issues faced by students of the campus, mediated it to concerned authorities and actively compiled them for the bimonthly newspaper “ INSIGHT “.
* **School Captain** (April 2010-March 2011) - organized various cultural events and competitions in the school for **over two thousand students**.
* Consistently represented institute in national and regional **debates** (NLS, ND, St. Xavier’s).
* Successfully completed a professional course in **Table tennis** (May 2012)
* Member of **National Services Scheme** (2011-2012)