

Somesh Yadav
Engineering Physics
Indian Institute of Technology Bombay
Specialization: Nanoscience

12D260002 UG Second Year Male

DOB: 06/06/1995

| Examination | University | Institute | Year | CPI / % |
|-----------------|-------------------------------|---|------|---------|
| Graduation | IIT Bombay | IIT Bombay | 2014 | 6.51 |
| Intermediate/+2 | Maharashtra State Board (HSC) | Lords Universal College of Science and Commerce | 2012 | 87.67 |
| Matriculation | Maharashtra State Board (SSC) | S.T.S. Mission English High School | 2010 | 90.18 |

SCHOLASTIC ACHIEVEMENTS

| • | Secured All India 98.75 %ile out of half a million students in IIT-JEE 2012 | [March-2012] |
|---|---|--------------|
| • | Awardee of national scholarship for 99+ percentile in Intermediate Boards | |
| | Examinations | [March-2012] |
| • | Topped the Intermediate Boards Examinations amongst all the Junior colleges | |
| | under Universal Educational Group | [March-2012] |

POSITIONS OF RESPONSIBILITY

Institute Cultural Mentor - Photography and Fine Arts, IIT Bombay

[July '13 - Till Date]

• Mentorship of the complete Freshmen batch of 2013 and fostering them in the cultural field of Photography and Fine Arts & planning/organisation of cultural events with the Cultural Council

Creatives Co-Ordinator, Mood Indigo, IIT Bombay (Asia's largest Cultural Fest)

[July '13 - Till Date]

 Part of Ideation of the Design and Development of the Official Android Application of Mood Indigo

KEY ACADEMIC & TECHNICAL PROJECTS

Contact-free Tracking interface (Institute Technical Summer Project)

[April '13-June '13]

- Built a Contact free 3-D tracking Interface using simple home-based materials and an Arduino with Processing Software
- It uses the theory of capacitance coupling between the operators hand and the device, calibrating the device shows the exact position of the user's hand in 3-dimensional space
- Future development and studies possible will have a significant contribution in advanced motion tracking, development of a 3D mouse and Design Pen Interfaces

Non-Linear Dynamics

[July '13 - Till Date]

Guide: Prof. Punit Paramananda

- Prepared a report on the chaotic behaviour executed by a Double Pendulum
- Programmed simulations to study the doubling route to chaos and other properties of logistic maps and other bifurcation diagrams

Crystal Radio [July '13-Till Date]

Guide: Prof. Parinda Vasa

• Is working on the production of a Crystal Radio out of a plastic bottle, enamel coated magnet wire, germanium diode and few other easily available stuff

Virtual Bus Transport Navigation Program

[Autumn '12]

Guide: Prof. Abhiram Ranade

- Developed a virtual environment of city traffic and a program to track and calculate the time to be taken by the bus to reach the destination using Recursive Self-correcting Mechanism
- Applied the properties of multi-dimensional arrays, structures and graphic packages

RELEVENT COURSES

- Department courses Modern Physics, Electricity and Magnetism, Optics, Non-Linear Dynamics, Classical Mechanics and Data Analysis and Interpretation in Engineering Physics
- Technical labs Electronics laboratory, Experimental and measurement laboratory, Mechanical Workshop and Engineering Drawing
- Mathematics Calculus, Linear Algebra, Differential Equations, Complex Analysis
- Others Computer Programming and Utilization, Electrical and Electronic Circuits, Chemistry, Economics
- Additional courses Product Design and Sensitisation

EXTRA -CURRICULAR ACTIVITIES

- Cultural:
 - ➤ Winner at various Inter-Collegiate competitions like Malhar, Mood Indigo in Fine Arts, Dance and other atypical genres
 - Awardee of the Hostel Special Mention for extra ordinary performance in Dramatics and Production in the Performing Arts Festival 2013, IIT Bombay
 - ➤ Position Winner at several Intra Institute Cultural Events in different genres
 - Active member of Insync(Dance Club), Pixels(Photography Club), Silverscreen(Film making Club) Rang(Fine Arts Club), Fourthwall(Dramatics Club) and the Design Club of IIT Bombay
- Sports:
 - > Completed a 10-month course in Weight Training certified by National Sports Organization
 - Represented the hostel in Cricket in General Championship