**Travel**

* **Tatkal train ticket**
  + **Ticket booking on 26th may**
  + **Leave for GSP on 28th.**
  + **TRAIN - Leave on 30th may.**
  + **­­TRAIN - Reach on 1st June.**
* **What to do in train**
  + **Books**
    - **Novel – alchemist**
    - **Wren n martin**
    - **You can win**
    - **Brief history of time**
    - **Linux**
  + **Movies**
    - **Blah**
    - **Blah.**
    - **Kung fu panda**
    - **Source code**

**Equipment**

* **Headphones**
  + **Phone**
  + **Laptop**
* **Books**
  + **MATHS**
    - **Distance education**
    - **Conte**
    - **Finney**
    - **Linear algebra**
    - **Electrodynamics**
  + **Linux**
    - **Notes**
* **Footwear**
  + **Shoes – wash**
  + **Sandal – wash**
  + **Chappal**
* **Pillow-mota**
* **iPod**
* **Mobile Charger**
* **Hard disk**
* **Kara**
* **Shorts and T-shirt**
* **Lock - Chain**

**Shopping**

* **Bag**
  + **Tier bag**
    - **Samsonite**
    - **American tourister**
  + **Laptop bag**
* **Parna**
* **Lens**

**Work there**

* **Physics – I chose physics because I feel like I wanted to go into deep, understand and experiment the physical phenomenon involved in various technology like wireless or wired medium. This does not mean that I don’t want to do something in computer. Rather I want understand the physics of a computer better. This time I feel like I’m more interested in physics of a computer or electronics rather that the higher level engineering details.**
  + **Theoretical physics**
    - **See on Wikipedia what possibilities are.**
    - **Does not mean either that I won’t do theoretical physics**
  + **Experimental physics**
    - **Play with electromagnetic waves in wired and wireless media. Try to send and capture raw electromagnetic signal in a computer manipulate it to send and receive meaningful information in computer.**
      * **Experiments**
        + **Laws of electromagnetics**
        + **Many experiments related to electromagnetics**
        + **How an antenna receive signal and complete theory behind it.**
        + **RFIDs and spying devices to listen sound at distant places.**
        + **Capture these in computer using some hardware and play with them in matlab.**
        + **Study attenuation verses distance and frequency**

**What frequencies can pass through a wire and the received part on the other end.**

* + - * + **Wireless waves**

**Frequency, modulation, characteristics (passing/ line of sight etc)**

**Producing equipment/ receiving equipment**

* + - * **Examples**
        + **ALOHA**
        + **CSMA**
    - **Aerospace**
      * **Quad rotor**
        + **Balancing it in air**

**Mathematics involved..**

* + - **Image processing**
      * **In mobiles..**
      * **Mathematics**
    - **See possibilities in Wikipedia about engineering physics..**
* **Mathematics**
  + **Probability**
  + **Linear algebra**

**My own work**

* **Mathematics**
  + **Probability and randomness**
  + **Transforms**
    - **Fourier**
    - **Laplace**
* **System programming**
  + **Ubuntu**
  + **Linux**
  + **Python**
* **Image processing**
  + **Free scale**

**External Links**

[**http://gymkhana.iitb.ac.in/~smp/forum/index.php?topic=24.0**](http://gymkhana.iitb.ac.in/~smp/forum/index.php?topic=24.0)

**Courses**

[**http://academicearth.org/courses/introduction-to-computer-science-and-programming**](http://academicearth.org/courses/introduction-to-computer-science-and-programming)

[**http://academicearth.org/courses/operating-systems-and-system-programming**](http://academicearth.org/courses/operating-systems-and-system-programming)

**http://cs.anu.edu.au/student/comp8440/lectures.php**