Computer Graphics @ CS-IITB
Course Basket

- Odd Semester
  - Computer Graphics (CS 675)
  - Digital Image Processing (CS 663)

- Spring Semester
  - Advanced Computer Graphics (CS 775)
  - Computer Vision (CS 763)

- Allied Courses
  - Machine Learning, Computer Aided Geometric Design, Optimization, Data Mining, Probability & Linear Algebra
  - R&D Project, Seminar

- Don't Hesitate to Take UG courses
Work with us

CS475/CS675
Computer Graphics

CS775
Advanced Computer Graphics

CS663
Digital Image Processing

CS763
Computer Vision

Seminar (Sem 1)

Seminar (Sem 2)

Research in Graphics, Vision, Image Processing

No pre-requisite

Pre-requisite

Pre-requisite

Pre-requisite

Pre-requisite

Pre-requisite

Pre-requisite
Seminar & Research

● Current View of M.Tech Students: Help in bringing into focus the research capabilities
  - Good idea to choose to work with me earlier, rather than later
  - Demand that research be fun
● Ideal to do the seminar in the first semester
● You can opt out of a M.Tech Project; however the default is that you will be opting in
Working Together

• Building a fruitful working relationship takes time and mutual respect
  - Different from being friends
  - Different from being a course instructor
• Building a research idea into fructification takes a lot of time
  - Necessary but not sufficient
Practical Realities

- Key problem: Resources
- Probability of multiple students wanting to work with the same professor is high
- Talk to current students
  - Jai Mashalkar, Gaurav, Sarbartha, Mihir, Hitesh, Yogesh
  - Shamsuddin Ladha, M. Nithya
- Recently graduated students
  - Utkarsh, Viraj Churi, Anup Agarwal, Venkatesh Linga, Srijit Dutt, Prashant Sachdeva
Topics and Number

• Prof. Parag
  – Upto three
  – Does not mean necessarily three.

• Topics Related To:
  – Study of Complex Mass-Spring Systems
  – Modeling and Texturing of Virtual Humans
  – Particle systems (Fire, Cloud)
  – Garment simulation on Virtual Characters
Topics and Number

• Number of students:
  - $\infty$ (if first semester),
  - 0 if second semester (you need to convince me)

• Anything in Graphics and Vision

• Medical Imaging
  - Histopathology imaging based Cancer detection
  - GPU computing