- ✓ Key aspects of HCI are Functionality and Usability

- ✓ Functionality – Set of actions or services that a system provides to its users.

- ✓ Value of functionality is visible only when it becomes possible to be efficiently utilized by the USER

- ✓ Usability of a System with certain functionality is the range and degree by which the system can be used efficiently and adequately to accomplish certain goals for certain users.

- ✓ Effectiveness of the system – balance between functionality and usability

- ✓ Similar trade off as with Efficacy v/s Efficiency for Robustness

- HCI is an emerging (or shud we say emerged!) trend in Computer Engineering

- Computer Engineers – analyse and design and evaluate computer systems – both Hardware and Software

- ACM mandate of COE is skillsets for Efficent Hardware and Software Interaction

- HCI focuses on the Design Issues related to Software Manufacturing or Development

- HCI – also defined as the **Study of How People Interact with Computers** and to what extent **computers are or are not developed** for successful interaction with human beings.

- HCI comprises of THREE Parts –

- **USER, COMPUTER and INTERFACE**

- **USER:** Individual or Group of Users working

- Issues such as – Appreciation of People's sensory system to relay information

- Differing conceptions or mental models of interaction by different users

- Role of Cultural or National Differences in Interaction

- **COMPUTER –** Desktop to Large Scale Systems – In a design task of Website Creation – Website is the COMPUTER

- **Smart Phones, VCR's etc. are all computers!**

- **INTERFACE:** balance between what is **ideal and what is feasible** for USERS

Other Design Observations over the years;

• **Why go to yesteryears!!!** Current institute portal (that supports several wings…) I am not aware of the layout in Student logins!!

• Faculty side login (NOT too long back) – multiple buttons that keep stacking downwards -- (passed on this to NSG…) –

• Human Eye can taken in more in the horizonal spectrum that the vertical one!!

• **One reason why the Newspaper industry thrives still**..

• One more cognitive reason is there…may be some body can guess..

• Earlier drop down menu discussion – design choice cud have been a radio button - subject to application considerations….

• **Why is it called RADIO BUTTON??**