

RAJIV GANDHI PROUDYOGIKI VISHWAVIDYALAYA, BHOPAL

Credit Based Grading System

Computer Science and Engineering VII-Semester

CS-7005 Elective-IV (1) Human Computer Interaction

1. Introduction to Human computer Interaction, HCI History, HCI Frameworks, HCI Paradigms. Aspects of Human Cognition.
2. Introduction to Evaluation, Predictive evaluation, heuristic evaluation, User modeling, UCD Process, Usability Principles, User-centered Design, Dialog: Command Language Interface & Graphical User Interface, Dialog: Pen & PDA.
3. Human Abilities, IRB & Ethics, Predictive Models and Cognitive Models, Descriptive Cognitive Models, Ubiquitous Computing.
4. Natural Language & Speech, Information Visualization, Universal Design & Assistive Technology, Pervasive Computing, Tangible User Interfaces
5. Help & Documentation, UI Software, UI Agents, and Case Studies: Windows Swing.

Text Books

1. Abowd and Russell Beale, “Human-Computer Interaction)”, Prentice Hall
2. Donald Norman, “The Design of Everyday Things”, Basic Book Publisher.
3. John Carrol, “Human-Computer Interaction in the New Millenium”

Reference Books

1. Paul Booth, “An Introduction to Human-Computer Interaction”, Psychology Press.
2. D. Hix and H. R. Hartson, “Developing User Interfaces: Ensuring Usability Through Product and Process”, Publisher - John Wiley.
3. Rosson & Carroll, “Usability Engineering: Scenario-Based Development of Human- Computer Interaction”, Morgan Kaufmanns.