Course Code	: EDN 253
Course Title	: Educational Technology
Total Contact Hours	: 60
Total Credits	: 4
Total Marks	: 100

Course Objectives (COs)	The course objectives are to enable students to: 1. recall and articulate the principles of Educational Technology 2. apply technology effectively in the teaching and learning process 3. analyse various types of communication and the fundamentals of teaching models 4. demonstrate and evaluate innovations in educational technology and their relevance to education
Learning Outcomes (LOs)	At the end of the course, the students will be able to: 1. indicate the concept of Educational Technology and its application to teaching – learning process 2. explain the communication process and the role of Information Communication Technology (ICT) in teaching-learning and instruction to design sound instructional system 3. classify the different models of teaching and teaching aids used in teaching – learning 4. compare the recent innovations in educational technology and their application

Unit-I: Understanding Educational Technology
- Educational Technology: Concept, scope and importance of Educational Technology
- Types of Educational Technology: Hardware and Software
- Systems approach to instruction
- Application of technology to teaching learning process

Unit-II: Communication Process
- Communication: Concept and Process
- Types of Communication
- Barriers of Classroom Communication
- Role of ICT in teaching and learning

Unit-III: Models of teaching and Teaching Aids
- Models of Teaching: Meaning and characteristics
- Fundamental elements of teaching models
- Models of Teaching: Information Processing, Computer Based teaching

- Teaching aids: Edgar Dale's Cone of experience

Unit-IV: Innovations in Educational Technology
- Social learning: Social networking sites, blogs, Chats, video conferencing, discussion forum
- Open Education Resources: Creative Commons, Massive Open Online Courses (MOOCs)
- e- Inclusion: Concept and application
- Ethical issues of e- learner and e-teacher

Sessional Work

- Internal Test/Assignment/Seminar/   25 marks

Activity (Any one)

1. Prepare a Power point presentation on any topic from the syllabus.
2. A review of an educational program presented through e-content.
3. Visit to any educational technology institute/centre.
4. Application and use of a recent technology tool in classroom activities.
5. Any other

SuggestedReading

1. Apple, M. (1991): The new technology: Is it part of the solution or part of the problem in education? Computers in the Schools, 8(2), 59-81.

2. Cheng, I., Safont, L.V. & Basu, A. (2009). Multimedia in Education: Adaptive Learning and Testing. New Jersey: World Scientific Pub Co Inc.

3. Collins, J., Hammond, M. & Wellington, J.J. (1997). Teaching and Learning with Multimedia. London: Routledge.

4. Dale, E. (1969). Audiovisual Methods in Teaching, New York: Dryden Press.

5. D'Antoni, S. & Savage, C. (2009). Open Educational Resources: Conversations in Cyberspace. New York: United Nations Educational, Scientific and Cultural Organization.

6. Jonassen, D.H. (2003). Learning to Solve Problems with Technology: A Constructivist Perspective.

7. Mayer, R.E. (2009). Multimedia Learning, New York: Cambridge University Press.

8. Mishra, S. & Sharma, R.C. (2005). Interactive Multimedia in Education and Training. London: Idea Group Inc (IGI).

9. OET (2000). E-learning: Putting a World-class Education at the Fingertips of all Children: The National Educational Technology Plan. Office of Educational Technology, US Department of Education. New York: DIANE Publishing.

10. Roblyer, M.D. (2007). Integrating Educational Technology into Teaching, (Edn 4). Delhi: Pearson Education India.

11. Solomon, G. & Schrum, L. (2007). Web 2.0: New Tools, New Schools. Washington: International Society for Technology in Education.

12. Spencer, K. (1991). The Psychology of Educational Technology and Instructional Media. Liverpool: United Writers Press.

13. Timothy J. N., Donald A. S., James D. L., James D. R. (2010). Educational Technology for Teaching and Learning, NOIDA: Pearson Education.