

## **M Ed Two Year Programme**

### **S.Et. 1 (b): Basic Educational Technology**

Maximum Marks: 100

#### **Rationale**

In the ongoing era, an expert in the field of education can't be a real expert without having knowledge of educational technology. For having an in-depth knowledge and understanding of the subfield of educational technology, one needs to develop critical understanding of the concept and applications of communication, instructional theories, and procedures, models of teaching and recent trends in this field. As a whole, it has become almost essential to learn about educational technology to survive currently in the field of education.

This course is aimed at creating basic understanding of educational technology among beginners in this field in order to be better teacher educator in this technology-packed demanding era of teacher education. The set of experiences is visualized to develop not only theoretical understanding but also to exercise it having hands-on experience by the teacher educators. It is intended to enable teacher educators to recognize, understand and appreciate ET as an effective learning-teaching tool for teachers and an enormous functional support to teacher educators.

This course should be dealt with essentially as a competence development component with conceptual understanding of the technology dimensions and their educational utility. It is best conducted in the blended mode, with plenty of practicums.

A significant point is that the teacher educators have different levels of familiarity with ET, ICT and use of other technologies, and students can be made to work in cooperative and collaborative groups.

#### **Objectives**

- To explore and revisit the relevant syllabi at B.Ed. level in order to develop basic understanding of concept of educational technology
- To evolve learning tasks involving communication and instructions
- To explore models available for teaching
- To develop the critical understanding about appropriate instructional and learning material for teachers
- To exercise ET based learning experiences with face to face classroom interactions
- To hold group discussions on recent trends in ET and ICT

**Unit 1.** Evolution of Educational Technology: Continuum from audio-visual, educational technology to information and communication technologies

Practicum: Revisiting the B.Ed. syllabi related to ET and ICT

**Unit 2.** Classroom and Ubiquitous Communication: Continuum from teaching to learning in the light of face to face and virtual communication

Practicum: Studying elements of classroom communication with reference to models of communication

**Unit 3. Instructional Theories and Procedures:** Theories and procedures with special reference to Bruner and Ausubel

Practicum: Preparation of instructional material for teaching of concepts

**Unit 4. Models of Teaching:** Conceptual understanding of models with special reference to Bruner and Ausubel

Practicum: Development of teaching material based on models given by Bruner and Ausubel

**Unit 5. Recent Trends in Educational Technology and Information and Communication Technologies:** Researches and priority areas

Practicum: Paper/article writing based on recent trends viz. open educational resources, web 2.0, social networking, cyber-bullying, etc.

### **Suggestive Readings**

#### ***Print resources:***

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.

Apple, M. (1995): *Education and Power*. New York: Routledge.

Barron, A.E., Orwig, G.W., Ivers, K. S. & Lilavois, N. (2002). *Technologies for Education: A Practical Guide*, Reference Sources in Science and Technology Series, (Edition 4). New York: Libraries Unlimited.

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

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

Dale, E. (1969). *Audiovisual Methods in Teaching*, (Edition 3). New York: Dryden Press.

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

Ehlers, U.D. & Schneckenberg, D. (eds) (2010). *Changing Cultures in Higher Education: Moving Ahead to Future Learning*. London: Springer.

Goswamy, B. P. (2006): *ShaikshikTaknikiEvamKaksha-KakshPrabandh*. Delhi: Swati Publication.

Jonassen, D.H. (ed) (2003). *Learning to Solve Problems with Technology: A Constructivist Perspective*, (Edition 2). California: Merrill.

Jonassen, D.H., Peck, K.L. & Wilson, B.G. (1999). *Learning with Technology: A Constructivist Perspective*. California: Merrill.

Joyce, B.R., Weil, M. & Calhoun, E. (2009). *Models of Teaching, Alternative eText Formats Series*, (Edition 8). Boston: Pearson/Allyn and Bacon Publishers.

Kanvaria, V. K. (2014). *A Comprehension on Educational Technology and ICT for Education*. GBO: Delhi.

Ledford, B.R. & Sleeman, P.J. (2001). *Instructional Design: A Primer*. Greenwich: Information Age Publishing.

Leonard, D.C. (2002). *Learning theories: A to Z*. Westport: Greenwood Publishing Group.

Mayer, R.E. (2009). *Multimedia Learning*, (Edition 2). New York: Cambridge University Press.

McQuail, D. (1984). *Communication, Aspects of Modern Sociology: Social Processes*, A.O.M.S. Social Processes Series, *Surveys in Economics*, (Edition 2). New York: Longman.

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

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.

Pathak, R. P. (2007): ShaikshikProdyogikiKeinNayeAayaam. Delhi: S. M. Books.

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

Roblyer, M.D., Edwards, J. &Havriluk, M.A. (1997).Integrating Educational Technology into Teaching. Chicago: Prentice Hall.

Saxena, P. K. (2008): ShaikshikProdyogikievamKakshaPrabandh. Delhi: KK Publications.

Sharma, S. & Gupta, N. (2007): ShaishikTaknikiAvamKakshaKakshPrabandhan. Jaipur: ShyamPrakashan.

Singh, Y.K., Sharma, T. K. &Upadhyay, B. (2008). Education Technology: Teaching Learning. New Delhi: APH Publishing.

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

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

Timothy J. N., Donald A. S., James D. L., James D. R. (2010). Educational Technology for Teaching and Learning, (Edition 4). NOIDA: Pearson Education.

**Web resources:**

[http://en.wikipedia.org/wiki/Educational\\_technology](http://en.wikipedia.org/wiki/Educational_technology)  
[http://portal.unesco.org/ci/en/ev.php-URL\\_ID=1657&URL\\_DO=DO\\_TOPIC&URL\\_SECTION=201.html](http://portal.unesco.org/ci/en/ev.php-URL_ID=1657&URL_DO=DO_TOPIC&URL_SECTION=201.html)  
[http://wikieducator.org/Educational\\_Technology](http://wikieducator.org/Educational_Technology)  
<http://www.oercommons.org/>  
<http://www.unesco.org/new/en/education/>  
<http://www.unescobkk.org/education/>  
<http://www.unescobkk.org/education/ict/>