

## **ENHANCING PROFESSIONAL CAPACITIES (EPC)**

### **SEMESTER - I**

#### **EPC1 CRITICAL UNDERSTANDING OF ICT**

**Credits: 2**

**Internal: 50 marks**

**Hours/Week: Theory-2hrs & Practical- 1hr**

#### **Course Learning Outcomes:**

**At the end of this course, the student-teachers will be able to**

- interpret the concept of Information and Communication Technology (ICT);
- predict new horizons in ICT; and
- discover enriched learning experiences using ICT

#### **Unit I: Historical Perspectives**

ICT : Concept, Objectives, Need and Importance of ICT – Characteristics and Scope of Information and Communication Technology – paradigm shift in education due to ICT – challenges integrating ICT in school education – Affordable ICT equipped classroom.

#### **Unit II: New Horizons in ICT**

Recent trends in the area of ICT – Interactive video – Interactive White Board – video- conferencing – M-learning, Social Media – Community Radio: Gyan Darshan, Gyanvani, Sakshat Portal, E-Gyankosh, Blog, MOOC, Whatsapp, Facebook, Twitter, etc. Recent experiments in the third world countries and pointers for India with reference to Education.

#### **Unit III: ICT Enriched Learning Experiences**

Application of ICT for enriching classroom experiences – Application and use of multimedia educational software for classroom situation – use of Internet based media for teaching and learning enrichment – Project based learning using computers, Internet and activities – collaborative learning, Technology aided learned, web based learning, legal and ethical issues copyright, Hacking, Netiquettes, students safety on the net.

**Suggested Activities:**

Use various social networks in teaching and learning and report their effectiveness on learning of the students.

Prepare a communication module on any one topic and analyze its effectiveness for student learning.

Prepare a multimedia package on any topic to enrich the teaching – learning process.

Submit a report on critical issues in utilization of internet among learners.

Organize a seminar on the impact of ICT in Educational Institutions.

Prepare various types of graph highlighting the performance of students.

**Suggested References:**

Agarwal, J.C. (2000). *Innovation in Educational Technology*. New Delhi: Vikas Publishing House.

Aggarwal, J.C. (2013). *Modern Learning in Educational Technology*. New Delhi Black Prints.

Aggarwa, D.D. (2004). *Educational Technology*. New Delhi: Sarup Publishing House.

Bharihok, D. (2000). *Fundamentals of Information Technology*. New Delhi: Pentagon Press.

Bhattachary, S.P. (1994). *Models of Teaching*. Regency Publications

Byran, P. (1997). *Discover the Internet Comdex Computer*. New Delhi: Dream Tech Publishing.

Conrad, K. (2001). *Instructional Design for Web Based Training*. HRD Press.

Crouton, T. E. (1962). *Programmed Learning and Computer Based Instruction*. New Work.

Gupta, M. & Arya (1993). *The Illustrated Computer Dictionary*. New Delhi: Dream Land.

Kumar, K.L. (2000). *Educational Technology*. New Delhi: New Age International Pvt. Ltd.

Madhu, P. (2006). *Satellite in Education*. Delhi: Shipra Publications.

Mangal, S.K. & Uma Mangal. (2009). *Essentials of Educational Technology*. New Delhi: PHI Learning Pvt. Ltd.

Mrunalini, T. & Ramakrishna, A. (2014), *ICT in Education*. Hyderabad: Neelkamal Publications.

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