



Department of Education University of Karachi

Bachelor of Education B.Ed. (Hons.) Secondary, 05 Semester Program

DTE-560

01

03

**Information and Communication Technology (ICT)
in Education Foundation**

Objective

The course will enable learners to:

1. Develop a well-articulated perspective on information and communications technology in education informed by personal experience and critical examination of computer resources, curriculum, and educational practice.
2. model and facilitate effective use of current and emerging digital tools to locate, analyze, evaluate, and use information resources to support research and learning
3. engage students in exploring real-world issues and solving authentic problems using digital tools and resources
4. participate in local and global learning communities to explore creative applications of technology to improve student learning
5. promote student reflection using collaborative tools to reveal and clarify students' understanding and thinking, planning and creative processes.

Course Outline:

Unit 1: Introduction to ICTs, Policy and Other Guidelines for Use of ICTs in Education

1.1 Introduction and Guidelines

1.2 ICTs Integration, Standards and Competencies for Teachers

Unit 2: ICTs Integrated into Curriculum and Instruction

- 2.1. Learning through custom-designed/ready-made applications
- 2.2. Audio, Radio Broadcast and Interactive Radio Instruction (IRI)
- 2.3. Video, animations, movies and television broadcast
- 2.4. Learning through Internet /Videos in Education
- 2.5. Using Digital Camera in Education

- 2.6. Interactive Games and Puzzles
- 2.7. Planning for ICTs Integration

Unit 3: Collaborative Learning using ICTs

3.1 Enhancing Opportunities for Collaborative Learning

- Collaborative projects (using email, Google Docs/presentations, etc.) — folk
- Using Wikis and Blogs — an introduction

Unit 4: ICTs for Life-long Learning and Teacher Professional Development

4.1 ICTs for life-long learning and teacher professional development

Why life-long learning?

- Planning - an information resource (TL resources on WWW, Wikipedia, National curriculum, etc.)
 - Learning content and methods
 - ICT/Collaborative Tools for Teachers (Emails, discussion groups, chat, mailing lists, professional forum, etc.)
 - Teaching-learning and assessment tools (templates, lesson plans, worksheets, online tests-IELTS, etc.)
 - Video/teleconferencing (Skype)
 - E-Learning and Blended Learning (Introduction)
- #### **Unit 5: Evaluating ICT Tools and Resources for Use**
- Evaluating ICT tools and resources
 - Making decisions on identifying ICT resources: Assessing quality and usability
 - ICT resources with the help of rubrics
 - Assessing quality of websites and other Internet applications, educational games, etc. (Gathering and analyzing information)
 - Bibliography I Webliography
 - Bhushan, A. & Ahuja, M. (1992): Educational Technology, Meerut, Vikas Publication, B-57, Meenakshi Puram.
 - Bigge, M.L. & Hunt, M. (1968): Psychological Foundation of Education, London, Harper and Row Publishers.
 - Bloom, B.S. (1972): Taxonomy of Education Objectives. A Hand Book-I (Cognitive Domain), New York: David Mokeay Campo.
 - Briggs, A.R.J. and Sommefeldt, D. (2002) Managing Effective Teaching and learning, London: Paul Chapman Publishing.
 - Cashman S. (2005). Integrating Technology in Classroom. New York: McGraw Hill.