

## M Ed Two Year Programme

### S.Ic.2 (m) : Information and Communication Technologies in Education : Approaches and Applications

Maximum Marks: 100

#### Rationale of the Course

This course deals with critical understanding on ICT in Education, theoretical frameworks in ICT integration, pedagogical approaches and emerging technological trends and its implication to education. The paper aims to contribute to the intellectual and continued professional development of prospective teacher educators by using ICT in diverse educational settings and various ICT tools for educational researches. It designed to provide opportunities to experience the LMS (Learning Management System), developing e-content / learning objects, and other ICT applications in educational settings. The practical elements within the course are intended to illustrate the theoretical underpinnings which make up the course.

#### Objectives:

At the end of the course the educational practioners will be able to

- Develop a critical understanding of ICT in Education
- Acquire a theoretical perspectives on various pedagogical approaches, frameworks and their practical utility in the classroom contexts
- Develop an understanding and capabilities on engaging ICT for professional development and educational researches
- Develop an understanding on E-learning and its possibilities in Education

#### 1. Developing Critical Understanding of ICT in Education

- Challenges of ICT in education: Access, equity and quality
- ICT integration in School and Teacher Educaton
  - Integrated Vs Outsourced approach (at school)
  - Skill development, Pedagogical integration, Subject Specific approaches (teacher education)

#### 2. ICT: Curriculum and Pedagogy

- Web technologies in education: Evolution, possibilities, challenges and emerging trends
- Mobile and ubiquitous learning environment and emerging trends
- Theoretical and Guiding Frameworks (TPCK, SAMR, TIM, TIP etc.) for ICT integration in educational settings
- Critical perspectives on ICT based Pedagogical Approaches and Models
- ICT for assessment of/for learning at school and teacher education contexts

#### 3. ICT for Professional Development and Educational Research

- Continuous Professional Development (CPD) of teachers and teacher-educators through professional networks, virtual communities, MOOC, webinar, webconferencing, etc.
- ICT in Educational Research: use of ICT tools in various research processes (locating literature; data collection, data analysis etc.).

#### 4. E – Learning and Learning Management Systems

- Nature and Types (online, blended); Elements of e –learning
- Developing e-content / learning objects: Design and technical aspects
- Learning Management Systems (LMS): Concept, standards, its application in education

#### References

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#### Suggestive:

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