|  |  |
| --- | --- |
| **Course Code** | **EDU-5048** |
| **Title of the course** | **Learning Technology for Secondary Education** |
| **Credit Rating:** | **03** |
| **Duration** | **16 Weeks** |
| **Level:** | **BS Education** |
| **Delivery:** | **Semester 5** |
| **Tutor/s:** | **Dr. Irshad Hussain** |
| **Pre-requisites:** | **None** |

**Rationale of the Course**

Generally, the 21st century is regarded as the century of advancements and inventions & innovations –putting knowledge into practice. It is the century where the proverb ‘knowledge is power’ has become a reality on account of having information. Information is disseminated and shared by using Information and communication technologies (ICTs). ICTs have brought an information revolution or information explosion creating a competitive world of work. Therefore, the areas of education and training are not exceptions rather exploiting it more appropriately to disseminate the right information at right time to the right personnel. The developed nations/countries appear to be powerful and ruling the nations on account of making advancements in ICTs and exploiting them in education. In education and training ICTs facilitate the teachers as well as learners to make teaching learning process more effective and productive. The course on learning technology will focus on students’ potential to transform it into their ability preparing them well to bring about effective educational as well as social change in the country.

**Course Description**

The course on learning technology is a 3-credit hours’ course offered in the first semester to the students of BS in Education. It challenges the students’ potential to enhance their passion for learning and improve their understanding, intellectual capacity & experience of learning with technology, and action research. The format of the course is unique and innovative and generates robust & considerate learning communities to support individual’s transformation rather emphasizing on rote learning. The course on “learning technology” aims at developing an understanding of such technologies used for augmenting and facilitating the learning of students, and make them aware of the new developments. Students will frequently interact with technologies, develop learning communities/ groups and networking, and share their experiences of learning with technologies throughout their academic journey.

**Intended Learning Outcomes**

After studying the course and completing its all requirements, the students would become able to

1. To define the concept of learning and process of leaning
2. Differentiate between different modes of learning
3. Explain the term technology and learning technology
4. To classify the learning technologies
5. Discuss the role of learning technologies in education
6. Compare role of different learning technologies used in teaching leaning process school education
7. To use different learning technologies for learning appropriately
8. Demonstrate an understanding of the impact of learning technologies on schooling; teachers, students and teaching earning process
9. Conduct a group project to research the impact of learning technologies on learning during school years
10. Create environments of learning through technologies

**Key transferable Skills**

Besides, of the above learning outcomes, all of the instructional endeavor would be focused on creating some skills including;

1. To identify and select appropriate technology for learning
2. To use learning technologies properly
3. To judge the problems and issues associated with certain technology
4. To solve the operational problems through research
5. Identify alternatives

**COURSE CONTENTS**

The course contents includes but not limited to the following

1. **What we know about learning**

Modes of Learning –formal, informal and non-formal

Learning in 21st Century –New Learning Tasks

### Role of Technology

Teaching with Technology,

Blended learning

Education Technology:

### Teacher Knowledge

Interactive Simulations

### Personalized Learning

### Equity, Accessibility, and Universal Design for Learning

### Collaborative Learning

### Flipped Classroom

### Gaming and Coding

### Mobile Learning

### Open Education Resources

NOTE: The Following Link Leads You To The Relevant Material. Please click on the following link

<https://www1.udel.edu/edtech/learning/presentations.html>

|  |
| --- |
| **Recommended Textbooks and References**  Hirtz, S., Harper, G. D. and Mackenzie, S. (Eds.) (2008). *Education for a Digital World: Advice, guidelines and effective practice from around the globe*. Commonwealth of Learning Canada; Vancouver, British Columbia  Hussain,I. (2005). *A study of emerging technologies and their impact on teaching learning process;* A PhD unpublished dissertation. Islamabad, Allama Iqbal Open University  Rashid, M. (2005). *Educational Technology*. National Book Foundation, Islamabad  Siemens, G. and Tittenberberger, P. (2009). *Handbook of emerging technologies for learning;* University of Manitoba. Learning Technologies Centre and Extended Education.[ <http://ltc.umanitoba.ca/etl>] |