

MPCC – 303:

Course Title: ICT & EDUCATION TECHNOLOGY IN PHYSICAL EDUCATION

Credit			Teaching Hours		
Lecture/Tutorials	Practical/Internship	Total	Lecture/Tutorials	Practical/Internship	Total
3	1	4	48	32	80

COURSE OBJECTIVES:

- To impart the concepts of ICT & Education Technology in Physical Education and sports.
- To develop understanding about various concepts of computer fundamentals and applying technology in teaching learning situation.

STUDENT LEARNING OUTCOMES:

- Correlate the of ICT & Education Technology in Physical Education and Sports concepts with the sports and athlete specific situations
- Integrate the knowledge about Communication Process and Teaching for learner.
- List down the Information Technology utilized in the field of sports.
- Analyze the issues related to Internet, Networking, E-learning and Cyber Security.

UNIT I: Basics of Education Technology

- Concept of Education Technology
- Role of Educational Practices
- Hardware Technologies
- Overhead Projector
- Still and Movie Projector
- Audio Visual Recording Instruments
- Television and Computers

UNIT II: Communication Process and Teaching

- Communication: Concept and process of Communication, Principles of Communication, Barriers of Communication, Class room communication (Verbal and Non-Verbal)
- Team Teaching: Meaning, Objective, Types, Principles, Procedure, Advantages and Disadvantages
- Modification of Teacher Behavior: Flanders's interaction analysis, concept, Procedure, advantages and limitations.

UNIT III: Information Technology

- Meaning, Nature and significance of information technology in teaching learning process.
- Multimedia Approach to Education: Role of Video conferencing, radio conferencing, television, Internet in teaching learning process, their advantage and limitation.
- Role and Composition of Central institute of Education and Technology, National Open School, State Educational Technology Cells, Distance Educational Institutions and their role for the improvement of teaching learning.

UNIT IV: Introduction of Computer, Internet, Networking, E-learning and Cyber Security

- MS Office,
 - MS Word
 - MS Power Point
 - MS Excel
- Networking
 - Advantage
 - Different Protocols
 - Type of Internet Connectivity and World Wide Web (WWW)
- E-learning – Definition, Advantage and Characteristics, Role of E-learning
- Introduction
 - Cyber Security
 - Security Services,
 - Types of Attacks,
 - Cyber crime, Online Fraud and Identity Theft, Desktop Security and Email & Web Security

LIST OF PRACTICUM

- Design various types of formats in MS Excel
- Preparation of PPT
- Searching & Browsing
- E-referencing System
- Video conferencing

TEACHING LEARNING STRATEGIES: The class will be taught by using lectures and demonstration, seminars, classroom discussion, videos, charts and presentations method.

ACTIVITIES: Lecture/Laboratory Work/ Field Work/ Outreach Activities/ Project Work/ Vocational Training/Viva/ Seminars/ Term Papers/Assignments/ Presentations/ Self-Study etc.

ASSESSMENT RUBRIC: Classroom Test, Project Work, Assignments, Presentations, Practical Work

TEXT & REFERENCES:

- Goldin, C., & Katz, L. (2008). The race between education and technology. Cambridge, Mass.: Belknap Press of Harvard University Press. ISBN-13: 978-0674035300. ISBN-10: 0674035305
- Castelli, D., & Fiorentino, L. (2008). Physical education technology playbook. Champaign, IL: Human Kinetics. ISBN-10: 0736060553. ISBN-13: 978-0736060554
- Leight, J. Technology for physical education teacher education. ISBN-10: 1494895765 ISBN-13: 978-1494895761
- Felker, K. (2011). Integrating technology into physical education and health. [Place of publication not identified]: American Press. ISBN-10: 0896414965. ISBN-13: 978-0896414969
- Mohnsen, B. (2012) Using technology in physical education. ISBN-10: 1893166899 ISBN-13: 978-1893166899
- Selwyn, N. (2011). Education and technology. London: Continuum International Pub. Group. ISBN-10: 1441150366. ISBN-13: 978-1441150363
- Capel, S., Breckon, P., & O'Neill, J. (2006). A practical guide to teaching physical education in the secondary school. London: Routledge. ISBN-10: 0415361117. ISBN-13: 978-0415361118