SEMESTER-IV

COURSE CODE: MS4TC4

CREDITS: 4

ICT ON TEACHING AND LEARNING

COURSE OBJECTIVES:

CO1: Develop the professional ability in ICT

CO2: Understand the impact of ICT

CO3: Explain the various educational resources

CO4: Describe the various assessment techniques

CO5: Explain ways to create online community

CO6: Understand the scope of ICT and its applications in teaching learning.

CO7: Analyse the types of ICT and apply them in education

CO8: Classify the new trends and techniques in education for achieving the goals of effective teaching and learning.

CO9: Get acquainted with emerging trends in E.T. along with resource centres of E.T. & elearning.

CO10: Familiarize with AI in education

UNIT - I: INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)

Definition, meaning, importance and scope of ICT - Applications of Information and Communication Technologies - Classroom and ICT; Professional development and ICT - Emergence of new information technology- convergence of computing and telecommunications.

UNIT - II: ICT MEDIATED EDUCATION

Concept, Importance, Meaning, Objectives & Nature of ICT mediated education -Teaching-Learning Environment: Types and Modes of using ICT - Learning Environments -Features of an ICT Mediated Teaching-Learning Environment - Physical Constituents of

Classroom/Environment - Social Constituents - Supporting Learners in learning

CHENNA

RECISTRAR
TAMIL NADU TEACHERS EDUCATION UNIVERSITY
KARAPAKKAM, CHENNAI-600 097

VICE-CHANCELLOR
TAMIL NADU TEACHERS EDUCATION UNIVERSITY
KARAPAKKAM, CHENNAI - 600 097.

UNIT -III: ICT AND TEACHING LEARNING PROCESS

ICT and Teaching and learning Process - Need for ICT Selection - Factors affecting ICT Selection - Selection of ICT - Integration of ICT - TPACK - E- learning, Web based learning, MOOC - Educational e-resources.

UNIT - IV: ICT FOR EDUCATIONAL MANAGEMENT AND ASSESSMENT

Definition – e-governance – importance of ICT in manpower planning and HRD – Applications of ICT in Educational Management – Use of ICT in financial management – Creating online community of Parents, Teachers and students for Effective management – TQM and applications of ICT in TQM - Concept and meaning of Computerized Test construction and Administration – Role of ICT in Assessment – Web based Assessment – Electronic support as a tool in assessment process – Use of Blogs for assessment – Advantages and Disadvantages of ICT based assessment

UNIT - V: ARTIFICIAL INTELLIGENCE (AI) IN EDUCATION

Artificial intelligence: Meaning and history – AI integrated education – Principles and objectives of AI integrated learning – Role of schools in the success of AI integrated learning – Meeting of National Goals through AI integration – Assessment of AI integrated learning.

SUGGESTED ACTIVITIES:

- 1. Select any one topic in the B.Ed. syllabus and integrate ICT in the selected topic
- 2. Create an online community to integrate the students and teachers in the classroom
- 3. Administer a Test using ICT
- 4. Create a personal blog and upload the ICT tools in the blog
- 5. Visit a nearby Teacher Education Institution and teach the students using ICT

TEXTBOOKS:

- 1. Kulkarni, S.S. (1986). Introduction to Educational Technology. Oxford & IBH.
- 2. Kumar, K.L. (1997). Educational Technology. New Age International (P) Ltd

REGISTRAR
TAMIL NADU TEACHERS EDUCATION UNIVERSITY
KARAPAKKAM, CHENNAI-800 097

Registrar's Office Registrar's Office

VICE-CHANCELLOR TAMILNADU TEACHERS EDUCATION UNIVERSITY KARAPAKKAM, CHENNAI - 600 097.

- 3. Mangal, S.K. (2002). *Essentials of teaching learning and information technology*. Tandon Publisher.
- 4. Prasad, K. (Ed.,) (2004). Information and communication technology: Recasting development. B.R.
- 5. Rajasekar. S. (2005). Computer education and educational Computing. Neelkamal Yadav, D.S. (2006). Foundations of information technology. New Age International (P) Limited.
- 6. Wayne, H; Maya, B and Charles, F. (2019). *Artificial intelligence in education*. Centre for Curriculum Redesign.

SUPPLEMENTARY READINGS:

- 1. Gaskell, Jim & Miller, Jeff. "Constructivist Approaches to Developing Diverse Communities of Learners Online: Examples from the MET program." Fourth Pan Commonwealth Forum on Open Learning Conference. 30 October 3 November, 2006.
- 2. Harasim, L. (1990). Online education: perspectives on a new environment. Praeger.
- 3. Kochhar, S.K. (2000). School administration and organization. Sterling.
- 4. Rajasekar, S. (2010). Computers in education. Neelkamal.
- 5. Rinebert Winston., Skinner, B.T. (1968). *The technology of teaching*. Applenton, Century Crofts.
- 6. Sadagopan S. (2008). E Governance today. The ICFAI University Press.
- 7. Sharma, R. A. (2001). Technological foundations of education, R. Lal Book Depot,
- 8. Sharma, Sita Ram & A.L. Vohra. (1993). *Encyclopedia of educational technology*. Anmol.

E-RESOURCES:

- 1. http://egyankosh.ac.in/
- https://334.edb.hkedcity.net/doc/eng/framework1/info.pdf

Registrar's Office

CHENNA

https://www.learningclassesonline.com/2018/07/ict-notes-in-english-medium-pdf-free,html

4. http://cbseacademic.nic.in/web material/Curriculum20/AI Integration Manual.pdf

REGISTRAR

TAMIL NADU TEACHERS EDUCATION UNIVERSITY
KARAPAKKAM, CHENNAL-600 097

UNIVERSITY

VICE-CHANCELLOR TAMILNADU TEACHERS EDUCATION UNIVERSITY KARAPAKKAM, CHENNAI - 600 097.

COURSE OUTCOMES:

After completing this course, the students will be able to

CO1: Develop professional ability in ICT

CO2: Apply the ICT skills in communications

CO3: Describe the impact of ICT on learning environments

CO4: Prepare the learners in learning

CO5: Identify the various educational resources

CO6: Integrates ICT in teaching learning process

CO7: Differentiate the advantages and disadvantages of ICT in assessment

CO8: Administer the test and evaluation by using ICT

CO9: Create online community by integrating ICT

CO10: Use Artificial Intelligence in teaching-learning and assessment process

OUTCOME MAPPING

COURSE OUTCOME	PROGRAMME SPECIFIC OUTCOMES																
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
CO1	✓								1	✓			✓				
CO2	✓								1	✓			✓				
CO3	✓								✓	✓			✓				
CO4	✓								✓	✓			✓				
CO5	✓								✓	✓			✓				
CO6	✓								✓	✓			✓				
CO7	✓								✓	✓			✓				
CO8	✓						c		✓	✓			✓				
CO9	✓								✓	✓			✓				
CO10	✓								✓	✓			✓				

REGISTRAR
TAMIL NADU TEACHERS EDUCATION UNIVERSITY
KARAPAKKAM, CHENNAI-600 097



