## **Course: M.A. Education**

Semester	II
Paper Number	MAEDCR22
Paper Title	Educational Technology
No. of Credits	6
No. of periods assigned per week	Theory: Six
Course description / objective and outcome	<ol> <li>Students will be able to:         <ol> <li>Internalize the concepts, components, application and challenges of Educational Technology.</li> <li>Explain the resources and challenges of Educational Technology.</li> <li>Articulate and examine models &amp; systems of communication</li> <li>Describe and apply instructional models of teaching &amp; instructional design.</li> <li>Identify and analyse teaching learning process and technology and recent trends in educational technology.</li> </ol> </li> </ol>
Syllabus	Module 1: (40 marks)
	Unit-I:
	<ul> <li>Basic of Educational Technology</li> <li>Concept, Nature &amp; Scope of Educational Technology</li> <li>Components of Educational Technology: Hardware; Software ; System Approach</li> <li>Advantages &amp; Disadvantages of E.T</li> </ul>
	<ul> <li>Communication &amp; Interaction         <ul> <li>Communication System- Concept, Elements, Types</li> <li>Classroom Communication Model; Barriers of Communication</li> <li>Instructional Design on the basis of learning theories: Behaviorists; Social Cognitive; Constructivist; Psychoanalysis</li> </ul> </li> </ul>
	Unit-II:
	Teaching & Planning Instruction         • Organizing knowledge for instruction: Procedural knowledge, propositional knowledge         • Teaching Skills and their components: Questioning skills, Interaction skills, Lecturing skills, Reinforcement skills etc.         • Models of teaching: Bruner's Concept Attainment Model, Roger's Nondirective Model, Shaver's Jurisprudential Model         • Instructional designs: Principles, role, process, model,

	advantage and disadvantages
	Applications & Resources of Educational Technology
	o E. I III formal education; non-formal education; informal education: Distance Education; Open learning
	systems MOOCs
	Lies of ICT in teaching learning: CCTV INSAT Tele
	by Video Conferencing, Computer Simulated
	& video Conferencing, Computer Simulated
	Multimedia Approach - Descurres Conteres for E.T. CIET, LICC, NOS, Stote ET,
	O Resource Centers for E.I-CIEI, UGC, NOS, State EI Call AVEC EMEC NIST at a (activity for the
	cell, AVRC, EWRC, INIST etc. (activity for the
	Broblems & Issues of implementation of E T: Digital
	Divide
	Divide
	Module 2: (40 marks)
	Unit III:
	Development of Instructional Design
	• Development of Instructional design: ADDIE ASSURE
	Dick & Carey Systems Approach Model: Gagne's nine
	events of instruction: 5E Model of Constructivism
	• Stages of teaching: Pre-active: Interactive & Post Active
	Teaching Learning Process & Technology
	$\sim$ Web 3.0
	• Technology Mediated Learning: TPACK Learning
	Management System Computer Assisted Learning CBT
	CAL CML
	<ul> <li>Models `of Teaching</li> </ul>
	Unit IV:
	Modification of Teaching Behavior
	• Formulation of instructional objective & Task analysis
	• Micro-teaching: concept, characteristics, procedure, major
	skills & role of supervisor; Simulated Teaching
	o Flander's interaction analysis technique & modern
	development
	Recent Trends in E.T
	$\circ$ Emerging Practices: Team Teaching & Co-teaching;
	Artificial Intelligence/Machine Learning; Blended/Hybrid
	Learning; Cloud Computing; Learning Analytics;
	Adaptive Learning; Gamification, Flipped Classroom; E
	learning; Mobile Learning
	• Technology for children with diverse needs
Texts / References	Suggested Readings:
	1. Maloy, R. W., Verock, R., Edwards, S. A. & Trust, T (2021).
	Transforming Learning with New Technologies (4th ed). Pearson
	2. Roblyer, M. D. & Hughes, J. E. (2019). Integrating Educational
	Technology into Teaching: Transforming
	Learning Across Disciplines (8th ed). Pearson

	3. Thomas, M. (2013). Technologies, Innovation, and Change in
	Personal Learning Environments. IGI
	Global
	4. Spector, J. M. (2016). Foundations of Educational Technology:
	Integrative Approaches and
	Interdisciplinary Perspectives (2nd ed). New York: Routledge
	5. Huang, R., Spector, J. M. & Yang, J. (2019). Educational
	Technology: A Primer for 21st Century.
	Singapore: Springer Nature
	6. Llyod, L. &Barreneche, G. (2014). Educational Technology for the Global Village: Worldwide
	Innovation and Best Practices. Medtord: Information Todav Inc.
	7. Smith, P. L. & Ragan, T. J. (2005). Instructional Design (3rd ed). John Wiley & Sons
	8. Gagne, R. M. (2010). Instructional Technology: Foundations.
	Routledge
	9. Reiser, R. A. & Dempsey, J. V. (2018). Trends and Issues in
	Instructional Design and Technology (4th ed). New York: Pearson
	10. Branch, R. M. (2009). Instructional Design: the ADDIE Approach.
	New York: Springer
	11. Connel, R. W. (2020). Teachers' Work. Routledge
	12. Dell'Olio, J. M. & Donk, 1. (2007). Models of Teaching:
	Connecting Student Learning with Standards.
	California: Sage Fublications
	13. JOYCE, B., WEII, M. & Califoun, E. (2013). Models of Teaching (701)
	ed). Pearson 14 Lo T & Le O (2012) Technologies for Enhancing Pedagogy
	Engagement and Empowerment in Education: Creating Learning.
	Eriendly Environments Hersey: 1GI Global
	15 Herring M C Koehler M I & Mishra P (2016) Handbook of
	Technological Pedagogical Content Knowledge (TACK) for Educators.
	New York: Routledge
Fyaluation	CIA - 20 marks
	End Sem Exam- 80 marks
	Life Sell Exam- of marks