SARDAR PATEL UNIVERSITY
Programme: Master of Education
Semester: IV
Syllabus with effect from: December 2016

Paper Code: PE04EMD2F1	Total Credits: 4
Title Of Paper: (P-1) Educational technology	

Unit	Description in detail
	OBJECTIVE: The student will be able to • Analyze and apply educational technology • Organize systematically the recent published material of major institutions of E.T. in India. • Understand and apply system approach and instructional design for better instructions • Modify their behavioural pattern in terms of teaching learning process. • Understand and apply the modalities of teaching
1	**INTRODUCTION TO EDUCATIONAL TECHNOLOGY** ➢ Meaning and scope of E.T. ➢ Forms of Educational Technology o Behavioural technology o Teaching technology o Instructional technology ➢ Components of Educational technology software – Hardware concept. ➢ Introduction to major institutions of Educational technology in India : CET, EMRC, IGNOU
2	**SYSTEM APPROACH** ➢ Concept of system and system approach ➢ System approach in Educational technology and its features. ➢ System approach to education and its components: -- Goal setting, Task analysis, Content analysis, context analysis and Evaluation analysis ➢ System approach for class room and self learning
3	**INSTRUCTIONAL DESIGN** ➢ Instructional design : Concept and meaning ➢ Process and Stages of Development of Instructional design ➢ Instructional design for competency based teaching ➢ Instructional design for developing self learning material
4	**MODALITIES OF TEACHING** ➢ Difference between : o Teaching and instruction; o Conditioning & Training ➢ Stages of teaching – Pre-active, Interactive, and Post-active ➢ Teaching at different levels – memory, understanding and reflective ➢ Modification of teaching behavior : o Micro teaching

	o Flander's Interaction analysis o Simulation

Basic Text & Reference Books:

- Gagne, R. M., & Driscoll, M. P. (1988). Essentials of learning for Instruction. (2nd ed.). Englewood Cliffs, NJ: Prentice- Hall.
- Gerlach, V. S. & Ely, D. P. (1971). Teaching and Media : A Systematic approach. Englewood Cliffs, NJ: Prentice - Hall.
- Hackbarth, S. (1996). The Educational Technology Handbook. Egnlewood Cliffs, NJ : Educational Technology Publication.
- Kumar, K. L. (1996). Educational Technology. New Delhi : New Age Int.
- Percyiyal, F. & Ellington, H. (1984). A handbook of Educational Technology. London : Koran Page.
- Richey, R. (1986). The Theoretical and Conceptual base of Instructional Design. London : Kogan Page.
- Romiszowski, A. J. (1986). Developing auto-instructional material. London : Kogan Page.
- નાયક, જયેશ એ. (૧૯૯૪). ગણિત શિક્ષણની આધુનિક દિશા. સુરત, ગજાનન પુસ્તકાલય.
- શાહ, દીપીકા ભ. (૧૯૯૫). શૈક્ષણિક પ્રૌદ્યોગિકી. અમદાવાદ : યુનિવર્સિટી ગ્રંથ નિર્માણ બોર્ડ.
- શાહ, ગુ. (૧૯૮૬). શૈક્ષણિક મનોવિજ્ઞાનમાં અધ્યયનમીમાંસા. અમદાવાદ : યુનિવર્સિટી ગ્રંથનિર્માણ બોર્ડ.