

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

Paper Code: PE04EMD2F2	Total Credits: 4
Title Of Paper: (P-2) Information and communication technology in education	

Unit	Description in detail
	<p>OBJECTIVE:</p> <p>After completing this course student will be able to</p> <ul style="list-style-type: none"> • Understand the new horizons of ICT in Education and its applications • Understand the concept and different contemporary systems of distance education • Understand and apply the Evaluation Strategies and counseling methods of distance education • Understand the elements and designs of courseware • Develop e-content, its organization and presentation • Understand the role of ICT in his professional development as a teacher and apply it
1	<p>NEW HORIZONS OF INFORMATION AND COMMUNICATION TECHNOLOGY IN EDUCATION</p> <ul style="list-style-type: none"> ➤ Recent innovations in the area of ICT. <ul style="list-style-type: none"> ○ 3G Mobile technology & mobile learning ○ E-learning ➤ National Mission on ICT in School ➤ Online learning, on line courses and learning management system ➤ Introduction and use of Tele conferencing, Video conferencing, contry wide classroom and satellite based instruction.
2	<p>DISTANCE EDUCATION & ICT</p> <ul style="list-style-type: none"> ➤ Concept of distance education ➤ Different contemporary systems of distance education <ul style="list-style-type: none"> ○ Correspondence, ○ Distance and open learning ○ Student support services ➤ Evaluation strategies in distance education ➤ Counseling methods in distance education
3	<p>INTRODUCTION TO COURSEWARE</p> <ul style="list-style-type: none"> ➤ Meaning and Elements of Courseware ➤ Courseware design ➤ Organizaing the content, Organizing the presentation in e-learning environment <p style="text-align: center;">Implications of Psychological theories of learning on courseware</p>



4	<p>ICT AND PROFESSIONAL DEVELOPMENT OF TEACHERS</p> <ul style="list-style-type: none"> ➤ Application of ICT in preservice and in service Teacher Education ➤ Professional development through ICT <ul style="list-style-type: none"> ○ Online forums ○ Net conferences ○ Tele conferencing ○ Web Conferencing ○ learning with websites & Social network ➤ ICT based resources: on line books & journals ➤ ICT base resources for research – Thesis & Dissertation, Online survey of Educational research
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Basic Text & Reference Books:

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- Anand Rao B. and Ravishankar: Readings in Educational Technology, Himalay Publishing House, Ramdoot Dr.Bhalerao Marg, Bombay – 04.
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- Chauhan S S: A Text Book of Programmed Instruction. (2nd Ed). Sterling Publishers Pvt Ltd., New Delhi / Bangalore.
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- Harun Arrasjid and Dorine Arrasjid: Media – A pocket Guide, MSS Information Corporation, New York.
- Keith Hudson: Introducing CAL – Practical guide to writing CAL Programmes, Chapman and Hall, London.
- Khanna S.D et.al: Technology of Teaching and Teacher Behavior, Doaba House, New Delhi, 1984. Four Author: Technology of Teaching.
- Kumar, K.L. (2008): Educational Technology, New Age International Pvt. Ltd. Publishers, New Delhi (Second Revised Edition).
- Kumar, N. and Chandiram, J. (1967): Educational Television in India, New Delhi : Arya Book Depot.
- Mukhopadhyay, M. (1990): Educational Technology – Challenging Issues, Sterling Publishers Pvt. Ltd., New Delhi.
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- Patel I.J and other: A Hand Book of Programmed Learning, CASE, Baroda.
- Rana, S. (1994): Open Learning in India, Commonwealth Publishers, New Delhi.
- Ronald H Anderson: Selecting and Developing Media for Instruction, Van Nostrand Reinhold, New York.
- Ruhela S P (2001): Some Aspects of Educational Technology.
- Sampath et. al. (1981): Introduction to Educational Technology, Sterling Publishers Pvt. Ltd.
- Sharma R A: Programmed Instruction – An Instructional Technology, Loyal Bank Depot, Meerut (UP).
- Sharma R.A: Programmed Instruction – An Instructional Technology, Goyal Book Depot, Meerut.
- Sharma, B.M. (1994): Distance Education, New Delhi: Commonwealth Publishers.
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- Sharma, K.D. and Sharma, D.V. (1993): Open Learning System in India, Allied Publishers Ltd., New Delhi.
- Venkataiah, N. (1996): Educational technology, New Delhi: APH Publishing Corporation.
- Walter A Written and Charles F Schuller: Instructional Technology - its nature and use of A.V. Materials (5th Ed), Harper and Row Publishers, New York.

