

SARDAR PATEL UNIVERSITY
Programme: Master of Education
Semester: I
Syllabus with effect from: June 2013

Paper Code: PE01EMED10	Total Credits: 4
Title Of Paper: Information and Communication Technology in Education	

Unit	Description in detail	Weightage (%)
1	Introduction to Information Technology: Meaning and scope of information technology Need of information technology in Education, Research and profession Functions of information technology Caution against over use of IT	25 %
2	Concept of Communication Technology: Concept and meaning of communication and communication technology Need of communication: Communication of information, Ideas, attitude and feeling Principles and Models of Communication Barriers of communication – Physical, Psychological, Language, background, culture	25 %
3	Introduction to Computer and Information Technology: Computer : Definition, features, classification and usage Computer system: Hardware, CPU, memory unit, Output unit, storage unit, input and output devices Computer Software, MS window, MS office (Word, PowerPoint, Excel) Computer applications in Education- Teaching – Learning, Evaluation, Research, Library and administration	25 %
4	Communication Technology: Internet & World Wide Web: Networking – concept, importance and types (LAN topology, cables, WAN public network, Internet, Extranet) Internet: Meaning, access options, equipment for internet, services World Wide Web : Meaning Search engines and use Advantages and limitations of internet	25 %

Basic Text & Reference Books:

- Adam, D.M. (1985): Computers and Teacher Training: A Practical guide, The Haworth Pren, Inc., N.Y.
- Anand Rao B. and Ravishankar: Readings in Educational Technology, Himalay Publishing House, Ramdoot Dr.Bhalerao Marg, Bombay – 04.
- Behera, S.C. (1991): Educational Television Programmes, Deep and Deep Publications, New Delhi.
- Chauhan S S: A Text Book of Programmed Instruction. (2nd Ed). Sterling Publishers Pvt Ltd., New Delhi / Bangalore.
- Coburn, P. and et. al. (1985): Practical Guide to Computers in Education, Addison – Wesley Publishing Company, Inc.
- Das, R.C. (1993): Educational Technology – A Basic Text, Sterling Publishers Pvt. Ltd.
- Dharma, OP and Bhatnagar O.O: Educational and Communication for Development, Oxford and IBG, New Delhi.
- Evaut, M. The International Encyclopaedia of Educational Technology.



- Goldberg, Alvin and Carl E.;Larson: Group Communication, Prentice Hall, Inc. New Jersey.
- Graeme, K. (1969): Blackboard to Computers: A Guide to Educational Aids, London, Ward Lock.
- Haas, K.B. and Packer, H.Q. (1990): Preparation and Use of Audio Visual Aids, 3rd Edition, Prentice Hall, Inc.
- 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.
- Mukhopadhyay, M. (1990): Educational Technology – Year Book 1988, All India Association for Educational Technology, New Delhi.
- Parmaji, S. (1994): Distance Education, New Delhi: Sterling Publishers.
- 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.
- Sharma, B.M. (1994): Media and Education, New Delhi: Commonwealth Publishers.
- 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.

