

M.Ed. –SEMESTER –II

Paper CC8: EDUCATIONAL TECHNOLOGY AND ICT

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Dear Students,

Our Unit-1, UNDERSTANDING EDUCATIONAL TECHNOLOGY is comprised of four parts-

1. Educational technology; concept and approaches.
2. Educational technology; present trends and futuristic vision.
3. Major institutions of educational technology in India –CIET, IGNOU, SIET, NIOS, CEC.
4. Recent trends of research in educational technology.

Today we will start third part of the UNIT-1

Central Institute of Educational Technology (CIET)

The Central Institute of Educational Technology is an autonomous organization, formed as a nodal agency under the National Council of Educational Research and Training (NCERT) in 1984 for promoting the use of mass media technology for expanding and improving the quality of education at the school level. The Institute is funded by the Ministry of Human Resources Development, Government of India.

The origin of the Institute was effected by merging two departments of NCERT, Center for Educational Technology and Department of Teaching Aids, with an aim to make the new age technologies in mass media available at the school level. The activities of the Institute are centered on the branches of media such as radio, television, movies, satellite communications and cyber media.¹

CIET is involved in various activities such as design, development and dissemination of alternative learning systems, promotion of Educational Technology, training of personnel in Educational Technology, coordination of activities of its subsidiaries like the State Institutes of Education Technology (SIET) and consultancy and media support to other constituents of NCERT.

.The Institute also provides courses in education at bachelor's, masters and doctoral levels.

Objectives

The main objectives of the Central Institute of Educational Technology is to act as the central point or the main resource centre for the propagation of school education media software, which are acquired through various sources, namely regional, international and national.

Another main objective is to achieve excellence in production, research and design for educational software for children, parents and teachers.

Teacher education and quality improvement of schools are also some of the main objectives. Critical appreciation of educational technology policy in India is something they look forward to.

Mandate

CIET is mandated to

- To design and produce media software materials viz. television and radio (for both broadcast as well as non-broadcast use) film, graphics and other programs for strengthening the transaction of curricular and co-curricular activities at the school level.
- To create competencies in development and use of educational software materials mentioned above through training in areas such as script development, media production, media communication, media research, technical operations, setting up studios and repair and maintenance of equipment.
- To develop plans for the use of Information and Communication Technologies in education.
- To train the faculty of Institutes of Advanced Study in Education/Colleges of Teacher Education and District Institutes of Education and Training in the use of Educational Technology in their teacher education programs.
- To undertake research, evaluation and monitoring of the systems, programs and materials with a view to improving the materials and increasing their effectiveness.
- To document and disseminate information, materials and media programs for better utilization and to function as a clearing house / agency in the field of Educational Technology.
- To advise and coordinate the academic and technical programs and activities of the State Institutes of Educational Technology (SIETs) set up by the MHRD in six states of India.

Functional structure

CIET functions with six vertical divisions, each attending to its own areas of responsibilities.

Media Production Division

The Division caters to the two main aspects of media production of video and audio productions under two separate departments.

Audio Production Department

The department is the production hub of CIET for audio related programs for broadcast and non-broadcast uses. The department also provides educational content for Gyan Vani FM channel, for broadcast through its stations in Delhi, Lucknow, Bhopal, Patna, Indore, Mumbai, Jaipur and Allahabad. The programs are aimed at ongoing learning for children, by providing a class room ambience away from schools. It caters to the requirement of students from 3 to 16 years of age and also assists teachers for obtaining curricular study materials not elaborated in the text books.

Video Production Department

The department produces educational videos for children of 5 to 18 years and teachers at the primary and secondary levels. The programs are produced in both Hindi and English languages. Doordarshan and *Gyan Darshan* channels regularly telecast these programs. They are also available in CD and DVD formats.

Planning and Research Division

The division is the liaison agency of CIET and prepares the program agenda for submission at Institutional Advisory Board (IAB) and Program Advisory Committee (PAC) meetings of NCERT and monitors the implementation of the approved programs. It also liaises with the Ministry of the Human Resources Development, the State Institutes of Educational Technology (SIETs) located in six States and Educational Technology (ET) cells of the State Councils Educational Research and Training (SCERT). The division is responsible for the documentation of SIET such as annual reports and attends to planning, conduct and dissemination of research.

Department of Information and Communication Technologies (DICT) Division

DICT is the information and communications hub of the Institute. It manages the information and communication resources and is engaged in the production of multimedia study materials, training of teachers, and propagation of ICT resources among schools in the country and the upkeep and maintenance of CIET web site.

Training Division

CIET conducts regular training programs for teachers and teachers' trainers through direct and distance mode (using EDUSAT network). The training modules are available on such subjects as design of media scripts, production of TV, Radio and Multimedia programs, editing, communication and media research, design of computer graphics, puppets, moppets and low cost teaching and learning materials. The other areas of training are:

- Web 2.0 tools, Wiki Educator and other web applications.
- Technical operations of setting up of studios and the installation, operation, repair and maintenance of studio equipment.

Media Resources Dissemination Division (MRDD)

MRDD division attends to the publicity and propaganda requirements of CIET through the sales of CIET audio and video materials, participation in book fairs and exhibitions, organization of meetings and conferences and preparation of information brochures and catalogues propagating them nationwide.

Engineering Division

The division is responsible for the procurement, upkeep and up gradation of the technical facilities of CIET such as the art production facilities, audio and video studios and the computer servers with the assistance of qualified technical staff.

Facilities

Library

CIET maintains three libraries, each dedicated to audio, video and book collections. The library is stocked with contents on educational technologies, radio, television, communication, films, and multimedia in the form of books, journals, CDS/DVDs and multimedia packages. The library is open to outside visitors, too.

Edusat Network

CIET utilizes the Edusat, the first Indian satellite exclusively for educational sector. CIET utilizes a Ku-band Sub Hub along with 100 terminals at various locations in India for conventional radio and television broadcast, interactive radio and television (phone-in and video on demand), exchange of data, audio, video and computer conferencing and web based education.

State Institutes of Educational Technology (SIET)

In order to reach all corners of the country, CIET has set up local stations in six states, which operate in coordination with state governments, under the guidance of CIET. The local stations are located at:

- Trivandrum, Thiruvananthapuram, Kerala
- Hyderabad
- Gujarat
- Pune
- Odisha
- Lucknow