

DOCUMENT RESUME

ED 232 617

IR 020 002

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 TITLE Educational Technology and Distance Education. An ERIC Fact Sheet.  
 INSTITUTION ERIC Clearinghouse on Information Resources, Syracuse, N.Y.  
 PUB DATE Jul 81  
 NOTE 4p.  
 PUB TYPE Information Analyses - ERIC Information Analysis Products (071)

EDRS PRICE MF01/PC01 Plus Postage.  
 DESCRIPTORS \*Audiovisual Communications; Continuing Education; \*Curriculum Development; \*Distance Education; Educational Needs; Educational Principles; Educational Radio; \*Educational Technology; Educational Television; \*Extension Education; Individualized Education Programs; \*Nontraditional Education  
 IDENTIFIERS Fact Sheets; PF Project

ABSTRACT

The role of educational media and technology personnel in the development of distance education curriculum is the focus of this fact sheet. The definition and background of distance education are briefly described as nontraditional education involving communication between teachers and learners by such means as correspondence, radio, and television. Major characteristics and assets of distance education include: (1) increased continuing education opportunities for those unable to attend conventional courses; (2) centrally coordinated information distribution and management; (3) a wide variety of faculty contributions such as assistance in the creation of materials and seminars; and (4) carefully designed and coordinated self-instructional materials and procedures. A variety of delivery systems are mentioned including newspapers, radio, television, course notebooks, textbooks, programmed instruction, pictures, audio cassettes, and lab kits and computers. Reference is made to popular publications used to design materials and procedures. The second part of the fact sheet lists relevant entries in the ERIC database followed by a general bibliography of relevant books and articles. (LH)

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## EDUCATIONAL TECHNOLOGY AND DISTANCE EDUCATION

--An ERIC Fact Sheet--

Interest in distance (or open) education among educational media and technology personnel has increased in recent years as instructional systems development processes have played a more active role in curriculum and course development. The purpose of this fact sheet is to describe those characteristics of distance (or open) education in which media and educational technology principles are used in course design.

### Definition and Background

Distance education is a term which originated in Europe and is currently embraced by many adult educators in various parts of the world. More popular terms in the U.S. are non-traditional education or open learning. The basic concepts are rooted in correspondence education which is thought to have begun in the early part of the 20th century (MacKenzie, et al., 1968) and in the Open University movement in England. A formal definition comes from the International Dictionary of Education (1977): "Where the teachers and taught are not in face-to-face contact but communicate with each other by such means as correspondence, radio and television" (p. 107).

### Characteristics

Distance education provides opportunities for continuing education, often by adults who are unable to attend conventional courses in formal educational institutions because of distance, cost, time, or physical incapacity. Learners are usually free to choose time, place, and pace of learning.

A central coordinating office is usually responsible for planning, producing, and distributing information to learners and for managing the details of enrollment, finance, recordkeeping, and testing.

Faculty members often help to create the materials used by the learners and later may participate by telephone and correspondence tutorials. They sometimes organize and lead occasional seminars for students who are pursuing the same course. Thus teachers are not essential for the delivery of information to students who are learning at a distance but they do contribute in many other ways.

One unique characteristic of most distance learning courses is the careful design of instructional materials and procedures which are used by all the students. Since these materials must contain the essence of the information to be learned, the design of all materials must be carefully planned and closely coordinated with every other aspect of the program. Kaye (1977) indicates that learning materials should be "... specifically designed for a self-instructional study mode (including clearly formulated learning objectives, self-assessment devices, and clear conceptual structuring) and containing features for the provision of feedback from students to learning system staff and vice versa." It is this aspect of distance education that requires the knowledge and skills of instructional development.

### Developing Materials and Procedures

Developing materials for distance learning is usually a cooperative effort among content specialists, instructional developers, and evaluators.

A variety of delivery systems are being used, but the course development procedures are more or less the same regardless of the media used. Besides mass audiences being reached by newspapers, radio, and television, distance education programs use course notebooks, textbooks, programmed instruction, pictures, audio cassettes, and sometimes, laboratory kits and computers. Some of the more popular publications used in designing materials are: Esseff and Esseff (1974), Kemp (1977), Davis, Alexander, and Yelon (1974), Johnson and Johnson (1970), Cavert (1974), and Gagne and Briggs (1974).

### More About Distance Education

Two recent publications provide a comprehensive overview of distance teaching and learning. Each includes the development of materials as one aspect of program development. See Holmberg (1977) and Kaye and Rumble (1980).

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