

₹ 200

ISSN - 2249-555X

Volume : 1

Issue : 5

February 2012



Journal for All Subjects

www.ijar.in

Listed in International ISSN Directory, Paris.



ISSN - 2249-555X

Indian Journal of Applied Research

Journal for All Subjects

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Utilisation Of Modern Technology By The Teachers In Pupil Processing Organisation

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ABSTRACT

In the process of teaching, learning the information explosion, rapid ways of conveying upto date information with logical connection are performed by the teachers. Actually, teacher is involving in communication process to promote the intrinsic interest on the subject matter. In this circumstance, the appropriate use of modern technology draws attention of learners and enables learners to participate in the process of teaching - learning. Selection of modern technological promotes the health of people processing organization. Appropriate use of technology attracts the attention of the learners and keep them attractive in learning process and enable them to reason out with the help of modern technology and learners get relieved from monotony. The modern taxonomical structure of technology in teaching learning process are operations technology materials technology and knowledge technology in the field of education.

Keywords : Education, Modern Technology

Teacher Is An Important Factor In Teaching Learning Process

School is an educational industry where teachers are skillful workers and students are considered as raw materials (i.e. raw materials may be human beings in a pupil processing organization, Perrow (1967)). Teachers require varieties of skills to process the raw materials (non-uniform nature of students) for their input. According to Kast and Rosenzweig (1979), the members in any organization should possess adequate skills. A skill implies an ability that can be developed by teachers and it is actually manifested in performance. In the absence of the teacher, learning may be erotic and the learners may fail to realize the instructional objectives. In the process of teaching, learning the information explosion, rapid ways of conveying upto date information with logical connection are performed by the teachers. Actually, teacher is involving in communication process to promote the intrinsic interest on the subject matter. In this circumstance, the appropriate use of modern technology draws attention of learners and enables learners to participate in the process of teaching - learning.

Technology As A Factor Of Educational Productivity

According to Robins (1983) technology is a processes (or) methods that transform inputs into outputs (educational productivity) in the organization. It is applicable in all types and all kinds of organization.

In educational system, technology plans a vital role in the student transformation process. The transformation process is mainly based on four reasons.

- 1) Expansion of the educational system gives rise to training, staffing and management problems, which impede the transfer of knowledge between teacher and student.
- 2) Knowledge required to utilize new technology that is only a part of school curriculum.
- 3) Technology is often dependent as a combination of factor input which must be used together.

- 4) The long term commitment to education is necessary to see a generation through the schooling process.

Selection Of Apt Technology In Pupil Processing Organisation

Effective functioning of educational organization is based on selection of apt technology. While selecting suitable technology for transformation process, the following aspects must always be kept in mind.

- 1) Fulfilment of national goals
- 2) It should be need based
- 3) Favouable environment is needed to apply apt technology
- 4) It should be compatible with the objectives of the organization and its preparedness.

Therefore technology is always situation specific. If technology is wrongly selected, that may affect the health of the organizations.

At the same time, the selected technology must be suitable in the context of indigenous raw materials, skills, adaptability, reliability and base of assimilation. Therefore, the selection of technology should be most appropriate and the best to achieve the best quality and excellent productivity with the lower cost.

Utilisation Of Technology By The Teacher In Organisation

The working elements (teachers) in the organization should possess professional skills and also they should possess right attitudes, loyalty and commitment and they should have mutual affection love and respect with leads to oneness in thinking and oneness in action to utilize technology effectively thereby and achieving, excellence. Therefore, teacher must have cooperation and unity which help them to plan their activities in order to ensure the quality of education.

Appropriate use of technology attracts the attention of learners and keep them attractive in learning process and enable them to reason out with the help of technology and learners get relieved from monotony.

Some times teachers prefer and apply technology in the classroom but they miserably fail in their approach and they prefer irrelevant. That is technology, mainly, because the teachers are not well trained in selecting apt technology for their instructional process.

Therefore while selecting and using technology, teachers have to consider certain factors. They are

i) Teachers must have clear understanding about learner characteristics, interest, aptitude, attitude, motivational level and level of comprehensive ability.

ii) Technological practices must match the learning style of the learner. Indian classrooms are large and over crowded and highly asserted. Therefore, teachers may find difficult to metals the technology and learning styles of learners.

iii) Teachers personal skill is also important factor. Teachers may possess the teaching skill such as technical skill, human relation skill (teacher student relationship) and conceptual skills. All the teaching skills come . under these three categories and teacher may be devoid of technical skills. Because of the poor technical skills, they develop a sort of technophobia. As a result, they fail to use even available technology.

Some times, teachers forget the fact that the technology adds are more dimension to their teaching and it ultimately leads to attain the adverse effect of teaching. Once the knowledgeable teacher has positive attitude and innate interest in technology, he is motivated to undergo training in handling technical equipments and thereby the practices in the classroom and ultimately teachers get rid of the technological problems of technophobia.

Modern Taxonomical Structure Of Technology And Teaching - Learning Process

Technology refers to techniques and also technological contrivances used in the process of teaching - learning. In this article, technology conceived of having three major dimensions and each dimensions consists of sub concepts. The conceptualization of technology leads to identification of operations technology, materials technology and knowledge technology which are considered as major dimensions of technology.

1) Operations Technology (Aston Studies, 1973, Perrow, 1967)

It is kind of technology in which various techniques that are used in the workflow activities (i.e. teaching - learning activity). The operation technology include the following sub-divisions. They are

- i) Equipping operations
- ii) Specificity of operations

iii) Continuity of workflow

i) Equipping Operations : It defines the extent of utility of appropriate teaching machine, information skills and learners (raw materials) in the teaching learning process.

ii) Specificity of Operation : It is a means of approaches in quality of performance in the teaching - learning process against exact standard.

iii) Continuity of Workflow : It denotes the sequential operation or the operations of logical link services in the teaching - learning process in order to improve the educational productivity.

2) Materials Technology (Thompson (1967) and Perrow's (1967) Intensive technology)

It refers to the actions that an individual (teacher) perform up on objects which include the characteristics of the object itself (or) nature of the learners (raw materials) in order to make chance in that object in the transformation process. The material technology consists of three sub concepts and they are defined below:

i) Perceived Uniformity: It indicates the uniform nature of learners or it includes the knowledge of the constant (or) stable quality of learners (constant nature of raw materials)

ii) Stability : It deals about the unchanging nature of the quality of learner (or) it deals about the material state of being firm.

iii) Hardness : It indicates the variability of non-uniform nature of raw materials (learners) and bring them in to transformation process in the teaching - learning situation in order to increase the effectiveness of system.

3) Knowledge Technology (Pugh et.al., 1969 and Perrow, 1967)

It deals about the varying complexities in the knowledge system used in the work flow process. In other words, it indicates the characteristics knowledge used in the workflow activities, knowledge technology has two sub concepts.

- i) Problems analysalability and
- ii) Task variability

i) Problem Analysalability : It explains the degree of logical analysis used in solving the problem.

ii) Task Variability: It denote the varieties of knowledge used to deal with the number of conceptual situation encountered in teaching - learning process.

The above classification of taxonomical structure of technology and its dimension may bring out many changes in the teaching - learning process of education. Teacher education should take necessary step to identify new techniques (technology) and apply the same in classroom to bring out enormous changes in instructional process.

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