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ROLE AND EFFECTIVE USAGE OF TECHNOLOGICAL ADVANCEMENT I TEACHING AND LEARNING

V. Pradeepa

Introduction

The rapid changes and increased complexity \emptyset today's world present new challenges and put new demands on our education system. There has been generally a growing awareness of the necessity to chang and improve the preparation of students for productive functioning in the continually changing and high demanding environment. In confronting this challeng it is necessary to consider the complexity of $t^{h^{\prime}}$ education system itself and the multitude of problem that must be addressed. Clearly, no simple, single uniform approach can be applied with the expectation that significant improvements of the system will occul

Educational Goals

The approaches to teaching can be categorized according to major educational goals that affect teaching strategies. On one hand the goal of education is view as the transmission of knowledge by the teachers to the students. On the other hand the goal of education is viewed as facilitating students' autonomous learning and self expression. The former approach which converges towards the teaching of specified subject matter, may be termed 'convergent' teaching and the latter approach which stresses open ended self-directed learning may be termed 'divergent' teaching. The convergent approach is highly structured and teachercentered; the students are passive recipients of knowledge transmitted to them and learning achievements are measured by standardized tests. The divergent approach is flexible, student-centered, where the students are active participants in the learning process and learning achievements are assessed by a variety of evaluation tools such as self-evaluation in parallel to teacher evaluation; documentation portfolios; and special projects.1

Convergent Teaching

In general, adaptation to individual differences under convergent teaching tends to be limited. The students are all expected to strive towards one goal of learning specified required knowledge; some may attain it and others may fall by the wayside or be given some remediation with limited results. Nevertheless, there are various possibilities of effective adaptation to individual differences under convergent teaching. In addition to adaptation in the rate of learning, where each student can be allowed to work at his/her own pace, there are

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Among the most difficult problems

the traditional class-room teachers. For

many possibilities of adaptation through the us diverse methods of teaching. Even when all the students Chara are taught the same material, teachers can use diffe

methods, different techniques or different media, to c to individual differences in abilities and person education system are those associated w characteristics. Such a 'multi-convergent' approach effectiveness. The current preparation of be more effective in giving the students opportuni specific age levels, specific subject mat to use their aptitudes and inclinations for learning sufficiently the complexity of factors such a sufficiently the complexity of factors such a sufficiently the complexity of factors such a sufficient such as the sufficient such attaining higher achievements. As the studevarious characteristics. There is a strong n experience success and consequently a sensiteachers to adapt instruction to the diver competence, their motivation is enhanced to purabilities, learning styles, personality traits further learning. Such an approach has a beby using more differentiated teaching strate potential for success than the common realing students with learning difficulties, who often structure differentiated teaching, there could be more through remediation with a sense of inadequacy use of teaching resources. Worthwhile teach use of teaching resources. In addition to the preparation of teache discouraging experiences of failure.2 done with advantageous results by persons of

Divergent Teaching

valuable teaching can be done by peers of diffe differenand abilities. Also, parents, grand-parents, and Adaptation to individual under divergent teaching may be expected voculd participate in and contribute productive productive because of its emphasis on stutteaching process. Furthermore, teaching autonomous autonomous, active, self-reliant learning. Yet, theftenhanced by volunteers, retirees, people with students who students who may not function well under divergence areas of expertise from the worlds of science, be conditions been students who may not function well under divergence areas of expertise from the worlds of science, be conditions been self-reliant learning. Yet, under divergence areas of expertise from the worlds of science, be conditions been self-reliant learning. conditions because of their strong need for guidengineering, medicine, public service, entertaineering, and street direction, and structure. Divergent teaching can multimedia technology, computer pro to such needs by individual guidance, along telecommunication, the Internet, audio is a 'guided-divergent' is structure. Divergent teaching can multimedia technology, computer pro ongoing assessment and subsequent modifications techniques, and others can provide beneficial of the structure. is a 'guided-divergent' approach which is Student learning can be greatly enriched fur structured and long approach which divergent and long approach which approach which approach which divergent and far; interaction with perfect the structured and long approach which approach approach which approach approach approach which approach a structured and less flexible than the open divertravelling - near and far; interaction with percentage of the structured and less flexible than the open divertravelling - near and far; interaction with percentage of the structured and less flexible than the open divert teaching but less narrow and limiting than convert 43

different cultures, different geographical areas, different occupations, different ways of life and different outlook interdependencies of the different fields. This can and learning process more effective and more benefic by providing a variety of experiences and alternation strategies for adaptation to students' characteristics

- 1. Ability levels and patterns of different abilities
- 2. Learning styles.
- 3. Personality Characteristics. 4

Inter-Disciplinary Curriculum

One of the most exciting developments in t world of science today is the growing involvement researchers in interdisciplinary collaborations, and $^{\sharp}$ increase in cross-fertilization of ideas and resear endeavors of people in different fields of science. benefits for cross-disciplinary scientific work & promising not only for science, but for many aspects daily living.

These developments have direct implications the education system. The tendency in our schools to teach him particular disciplines. In view of the cross-disciplines special interests and special needs. trends, the curriculum can be integrated around top that reflect the patterns, interactions,

Undoubtedly, many possibilities exist that are not of provide students with ways to study and attempt to implemented even though they could make the teach comprehend the world around them through concepts and ideas that are less disparate or disconnected.5

> The growing inter-disciplinary collaborations and co-operative sharing of information from different fields and the efforts to find pragmatic solutions to global problems have further implications for education. There are important implications for the preparation of students to function and be productive in a world with diverse populations, different economic conditions, multitudes of cultural, religious and ethnic groups, and many other different factors. Furthermore, it is highly beneficial to begin early in the educational process to organize learning around problem solving, critical thinking, and dealing with issues arising from different fields of study and different aspects of real life conditions.

The structure and organization of the student invaluable and the various application possibilities body can be in the form of small and large groups; study pairs; and individualized study arrangements. Social alternatives are possible in heterogeneous groups with a great deal of interchange within them and between them and other groups. Clearly, student groups may to teach bits and pieces of information related vary in age, cultural and socio-economic background,

There are various alternatives in the types of learn that an integrated curriculum can include:

- 1. Required subjects and basic academic skills so of which are taught in a convergent way, usin in addition to teachers' didactic presentation programmed instruction, multi-med technologies, computer programs, videos, a other techniques involving technologic innovations.
- 2. A number of required subjects and acade skills can be taught in a multi-convergent " where methods of teaching are adapted students' different abilities, needs and interes For example, different intelligences may emphasized such as, linguistic intelligent logical-mathematical intelligence, spat intelligence, musical intelligence, bod kinesthetic intelligence, and others.6
- 3. A major part of the program can be devoted in the decision-making process and focus

- aspects of the units in which they can bes develop their capabilities, satisfy their interests and fulfil their needs.
- 4. Individually chosen projects where the students can work on topics they have chosen and where they could apply their strong skills and competencies, wherever they lie. Students can be encouraged to present their work on their project to the group in any way compatible with their tendencies. The students can present their work to their peers and teachers as an exhibit, as an oral presentation, as written material, as a play, a video, or any other means of communicating and disseminating information. Divergent teaching is the approach used for those individually selected, and often independently pursued, projects.7

Conclusion

The above discussion of ways to implement integrated inter-disciplinary curriculum elearning grew out of the recent integrated inter-disciplinary curriculum chosen by teachers and students together. attempts at reforming the education chosen by teachers and students together. It attempts at reforming the education system tend to be units enable students to acquire knowledge ineffectual. The attempts to use simple large forces (such skills associated with different disciplias standardized testing, for example) in dealing with through congruous meaningful learning revolthe ills of the complex education system are essentially around a topic of interest to the students doomed to fail. Undoubtedly, there are no simple general work on the units is undertaken by group solutions to those multifarious complex problems. The students who are encouraged to take active above suggestions of some different possibilities of in the decisi

implementing changes stem from the conviction such special, differentiated approaches can be beneficial and can have significant positive effects the teaching and learning process in our educate system.

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