

## ADVANCED PEDAGOGY AND EFFECTIVE EDUCATION IN 21<sup>ST</sup> CENTURY

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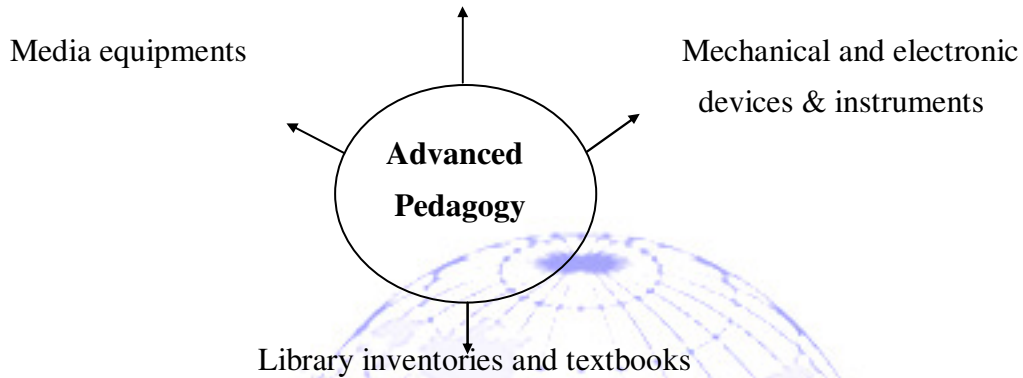
### Abstract

*Education encompasses teaching and learning specific skills. Education has as one of its fundamental aspects of the imparting culture from generation to generation, yet it more refers to the formal process of teaching and learning found in the school environment. Advanced Pedagogy is the systematic application of science and Pedagogy in the field of education. It is concerned with input, output and process aspects of education. It involves the formulation of learning objectives, developing appropriate strategies of teaching and designing evaluation techniques. In advanced Pedagogy various teaching strategies including team-teaching, teaching with ICT, e-learning, problem-based learning, field-based, etc. learning enhances interaction in student and teachers. Active learning is one of the strategy of advanced Pedagogy having group discussion, project-based learning, question-answer session make student more active. Advanced Pedagogy has successfully incorporated theories of leaning, simulated teaching, co-operative & collaborative learning. It is now powerful discipline and stands for wise application of the available human and non-human resources providing appropriate solution to education problem and to improve the process and products of education in 21<sup>st</sup> century.*

The term of ‘Pedagogy’ is not new in the field of education. The term is very popular in the field of education before 1970. In 1970, the new term ‘educational technology’ had replaced the term pedagogy and it is very popular all over the world in the field of education. Both the concepts-pedagogy and educational technology are related to each other Pedagogy helps in understanding the concept of educational technology. The shape of future schools, colleges and universities is bound to change radically due to pedagogical impact in the years to come. Pedagogics of education has a great future both in the field of education and Teacher education.

Concept of Advanced Pedagogy

Methods and strategies of teaching tools



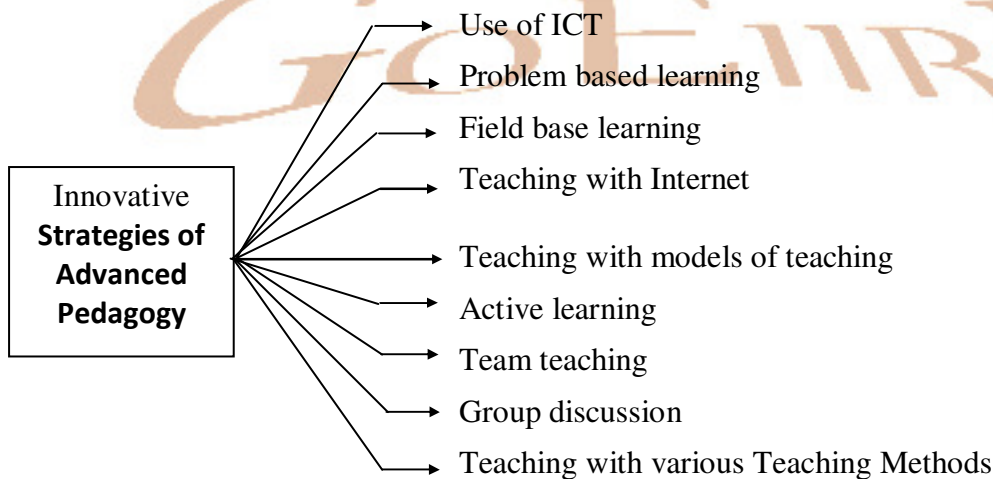
“The development, application and evaluation of systems, techniques and aids to improve the process of human being.” - **N.C.T.E.**

Pedagogs of Education is “The systematic application of Scientific Knowledge about teaching, learning and conditions of learning to improve the efficiency of teaching and learning.”

- **G.M. Leith**

“Pedagogs of education can be conceived as a science of techniques and methods by which educational goals could be realized.” - **Shiv Mitra**

**Innovative Strategies of Advanced Pedagogy :**



**I) Team – Teaching :**

Team-teaching is an organizational structure to improve teaching learning process in the

classroom.

“Team teaching involves bringing together a number of classes, whose teaching is then the joint responsibility of the teachers of these classes who now constitute a team. -Michael J.

### **Characteristics of Team-Teaching**

- 1) It is an instructional arrangement.
- 2) Teaching to be conducted by two or more teachers.
- 3) It is sort of pooling of expertise and resources such as experience, interest, knowledge and skills of teachers.

### **Advantages :**

- 1) It affords opportunities to the students to develop human relation essential for social adjustment.
- 2) It gives adequate opportunities to the students for free expression.
- 3) It makes proper use of the staff, equipment and school building.
- 4) Team-teaching helps in the improvement of instruction.
- 5) The plan provides a flexible class size.
- 6) Students get the opportunity to be benefited by the special knowledge of teachers constituting the team.
- 7) A strong sense of involvement and responsibility develop among students.

### **II) Use of Tablet PCs for Teachers and Students :**

#### **➤ Teacher Use :**

- Create integrated assignments for the student use.
- Students can fill in and submit work electronically.
- Tablet PCs provide teachers, with the ability to insert comments for student's work.
- Teachers are able to have students brainstorm in class by writing their thoughts on the Tablet PC and save their work. Tablet PCs also allow teachers to provide notes to students.

#### **➤ Student Use :**

- Student can collect and share websites and extra information for study.
- It allows students to submit assignments and retain a copy.
- The ability to take notes in their own handwriting and also search through those notes.
- Collect and share web sites and information for research.

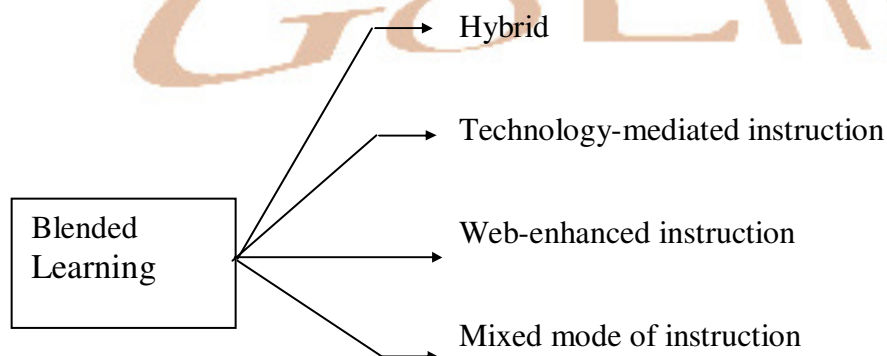
**Advantages of Table PCs**

- 1) Enhance ability to promote active learning through student’s use of wireless communication among themselves and with the instructor.
- 2) Students can concentrate on understanding the concepts rather than transcribing the instructor’s lecture and copying content from the board.
- 3) Student can play the movie files in case they have missed any classroom lecture.
- 4) Student can record the session as a print file which can shared with the students as a well-prepared class note.
- 5) Colored stylus helps for clarity and emphasizing the concepts.

**Recent Pedagogical Trends :****Blended Learning:**

Blended Learning is a fruitful effort in integrating live classroom activities including face to face instructions along with online learning and instructions so as to reap the maximum benefits by utilizing the best elements of all through effective planning by an ideal facilitator.

- **Babu M. Sameer**

**Advantages of Blended learning :**

- 1) It facilitate simultaneous independent and collaborative learning experience.
- 2) The use of information and communication technologies has been found to improve access to as well as student attitudes towards learning.

- 3) It improves communication between lecturers and students.
- 4) Students are able to better evaluate their understanding by using computer-based qualitative and quantitative assessment modules.

### **Flipped Classroom :**

Flipped classroom is a form of blended learning in which students learn new content online by watching video lectures, usually at home, and what used to be homework is now done in class with teachers offering more personalized guidance and interaction with students, instead of lecturing.

### **Advantages :**

- 1) Flipped mastery learning applies the mastery concept to flipped classroom.
- 2) In flipped mastery classroom, students view each lecture and work on each exercise or project when they have mastered the precursors.
- 3) Replacing lectures with group activities increases class activity.
- 4) Most of the students do their years work in much less time.
- 5) Advanced students work on independent projects while slow learners get more personalized instructions.

### **Importance of Advanced Pedagogy for development of education in 21<sup>st</sup> Century**

#### **1. Utilization of hardware and mass media :**

Pedagogy of education describes and utilises various instruments, equipment, gadgets and communication devices which play a significance role in achieving the educational objectives.

#### **2. Audio-Visual aids :**

Development, selection and use of appropriate audio-visual aids is another important area of pedagogy of education. Audio-visual aids play an important role in the teaching-learning process, which give long lasting knowledge to students.

#### **3. Teacher preparation :**

Pedagogy of education takes special care of preparation of teachers for performing their duties. For achieving this purpose pedagogy of education includes topics like models of teaching, team teaching, simulated teaching, active learning, teacher effectiveness,

modification of teacher behaviour through classroom interactions.

**4. Analysis of teaching and learning :**

Pedagogics of education covers different aspects of teaching and learning such as concept of teaching, variables to teaching, analysis of teaching process, levels of teaching, phases of teaching, theories of teaching, concept of learning, relevance of theories of learning, relationship between teaching and learning, making teaching learning process more effective.

**5. Development of teaching-learning material :**

It consists of techniques of developing software and instructional material like computer assisted learning material, mass media instruction material, individualized system of instructions and various instruction strategies.

**6. Teaching-learning strategies :**

A strategy plays an important role in the hands of a teacher in every teaching learning situation. Pedagogics of education evolves different teaching-learning strategies.

In this way Pedagogics of education is a proper means of selecting suitable strategies of teaching in terms of maximum learning and available teaching resources the availability of different types of modes of teaching, devices and methods of teaching.

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