Pedagogical Aspects of Forming Students' Cognitive Competence with the Help of Innovative Technologies

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Abstract: Innovative technology is the use of computer technologies or new methods to create, to make the lesson process interesting and effective for learners. Innovative technologies can be helpful to develop students' coginitive competence. That's why this article describes about pedagogical aspects of forming students' cognitive competence with the help of innovative technologies.

Teaching principles and methods are both art and science. A teacher creates an interactive learning environment to inspire children using art. In schools, children learn different languages skills and develop critical thinking abilities. Educationists require the right tools and methodologies to teach children, which is a science. Pedagogy is coined from the Greek words 'paidos' (child) and 'agogos' (leader). So, pedagogy is the study of teaching and how the content is presented to students. It is the development of an educational process that helps learners gain knowledge. Usually, Pedagogy definition includes the teaching practices and theories deployed to teach. It stimulates the unique interaction between teachers and students. Pedagogy in education demonstrates teaching methods for both academic and theoretical aspects. Mainly, four core learning profiles fall under pedagogy in education:

➢ Auditory learners – listen to the information presented to them in classrooms, and they learn from verbal instructions or audio recordings.

➢ Tactile learners – acquire information through movement and touch. They prefer to learn via learning aids like educational devices.

➢ Visual learners – see information and then visualize the relationship between concepts and ideas.

➢ Reading and writing learners – prefer a traditional teaching approach. These learners read the text and write it to process information.

Pedagogy enables teachers to capture students' interests and create a progressive learning environment. Using different pedagogical methods, teachers can help students learn at their own pace. However, teachers have to use innovative strategies to leverage pedagogy in education:

Touch creativity. One of the most straightforward yet innovative pedagogy strategies is to use creativity to improve students' engagement levels. Using creative teaching methods, you can excite the artistry bone in your students.

Today, you have numerous creative tools available to teach your students, such as visual exercises, video games, interactive videos, and so on. Using digital creative tools, you can hold your students' interest for a more extended period and teach them different lessons easily.

Brainstorming. Brainstorming is an inclusive pedagogy in education to build the confident personality of students. When students can share ideas with their teachers without fear or hesitation, it will boost their confidence. They will brainstorm more ideas and present them to teachers. This practice will build a confident character of students, but it will also challenge their brains to think of new ideas to approach the same problem.

Use AV teaching tools. The education sector has accepted technological advancements for a long time now. You can find various technologies in the educational sector today, such as artificial intelligence, machine learning, and more. For pedagogical strengthening, audio and video tools are highly useful. These tools not only improve the listening and observing skills of students. But they can also enhance their imagination with visual effects, graphical interpretations, and brain mapping. Students can understand concepts better with video and audio support. They can explore topics in-depth with proper teaching tools.

Outdoor classrooms. Taking your class outdoors can improve their imagination and senses. They can run through seeing things, experiencing new adventures, and interacting with real people. This pedagogy approach will strengthen the interaction and engagement of students in your class to a great extent.

Exploit hobbies. When you cannot teach a student with traditional teaching methods, you should take a personalized approach to understand the students first and then teach them. Under this method, you can use students' hobbies to teach them a new lesson. For example, making students understand the life cycle of a butterfly is a bit tricky. But, if you organize a drawing competition in your classroom to draw a butterfly life cycle, this artistic approach will help you a lot.

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