

ENHANCING STUDENT LEARNING THROUGH ADAPTIVE LEARNING TECHNOLOGY

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Students deserve the chance to succeed in their academic careers. Various resources and materials, like technology, are required for their academic achievement. All students, particularly at-risk and special populations, must have access to the curriculum that undermines their goals and future success.

Students who are experiencing academic challenges need learning support. It is imperative that teachers provide them with the tools and resources needed to be successful. Adaptive technology can be used consistently to address learning gaps. Thus, technology can provide students with the educational support they need to avoid learning challenges.

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Adaptive learning technology is a type of educational technology that adjusts the learning experience to the individual needs and abilities of each student. This is done by using data and algorithms to personalize the learning experience, providing customized content and feedback, and adjusting the difficulty level of the material based on the student's performance. This approach aims to optimize the learning experience and help students achieve their goals more effectively.

Adaptive learning technology uses a variety of tools, including computer-based courses, to assist students in processing information and curriculum. Learning tools like iPads, tablets, and other devices are considered adaptive technology equipment that aid students in meeting their academic goals.

Computer-based programs are another type of adaptive technology that can be used to enhance learning achievement. Private institutions and organizations, as stakeholders, may collaborate with schools to provide adaptive technology-based academic courses.

Digital reading guides, computer visual representations, and animated text may be used in addition to computer-based programs for students learning. When exploring new course programs, computer-assisted activities can be used independently. It is critical that teachers are equipped to utilize adaptive technology in order to address learning gaps for students.

Adaptive technology assists students in improving their literacy and numeracy skills. Visual and audio materials may assist students in gaining a deeper understanding of concepts, which they can then practice in unfamiliar circumstances. Giving students adaptive technology allows them to set attainable academic goals. Students can learn deeply because concepts and skills are scaffolded.

Additional adaptive technology features can be utilized to assist students in processing and understanding content. Learning materials with advanced features and computer-based tracking programs enable students to learn at their own pace without feeling pressured. With extra help, many students can meet or exceed their academic standards. Students can be guided by adaptive learning technology during classroom discussions, remedial classes, and tutorials. Students may use computer-based programs during discussions to reinforce learning skills they need to seek new knowledge content before obtaining direct instruction from the teacher.

Computer-based remedial courses that focus on specific learning skills that students need to master are also examples of adaptive technology. Students in computer-based programs perform particular skills to progress to more complex skills. After a pre-assessment, the teacher may assign learning skills based on the results of the assessments.

Teachers can provide homework using adaptive computer-based activities to ensure that students practice and gain knowledge over time. Students can make consistent progress while learning content using differentiated assignments and progress monitoring. Moreover, varied learning platforms can improve students' learning performances.

When students receive sufficient learning support, knowledge, and instruction using computer-based programs, they become independent and take charge of their education. It is also critical to improve responses in order to make better use of adaptive learning technology for students and teachers. Students can set achievable and realistic goals when information is assessed, analyzed, and communicated.

References:

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