



MULTIDISCIPLINARY APPROACH: BENEFITS, CHALLENGES, ADVANTAGES & DISADVANTAGES

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ABSTRACT:

The word multi means many. So multidisciplinary approach means studying the same topic from the viewpoint of more than one discipline. It combines the knowledge and skills from various academic disciplines to redefine problems. It is the method that highlights the diverse perspectives that different disciplines can bring to illustrate theme, subject or issues. The purpose to this research article is to identify and understand the obstacles involved with the multidisciplinary approach. The benefits, challenges, advantages and disadvantages of multidisciplinary approaches.

KEYWORDS:

MULTIDISCIPLINARY, BENEFITS, ADVANTAGES, DISADVANTAGES, TEAMWORK, INTEGRATION, ADAPTABILITY, FLEXIBILITY.

INTRODUCTION:

A multidisciplinary approach combines knowledge and skills from several academic disciplines to address complex issues and difficulties. It means drawing from multiple disciplines to redefine problems and reach solutions based on a new understanding of complex problems. Discipline is a field of study. So, a multidisciplinary approach is a system in which students are asked to understand a single subject as it is seen by two or more traditional disciplines. It describes studying in more than one subject and the differences between them. This approach emphasizes collaboration and communication among experts from various fields to address complex problems and foster holistic learning experiences for students. It aims to promote critical thinking, creativity, and innovation. Such approach is base of curriculum integration mainly highlighting the diverse disciplines. This approach promotes building a thorough learning background by combining knowledge from various disciplines. For e.g. Students can match their skills from science and arts to create scientific illustrations. It improves critical thinking, problem-solving, teamwork and creativity. It prepares students for real world challenges and allows them to explore their diverse interests. It enables the students to explore their knowledge and helps in the advancement of their career.

CHARACTERSTICS OF MULTIDISCIPLINARY APPROACH:

The multidisciplinary approach in education has the following characteristics:

EXPERT AND TEAMWORK COLLABORATION:

It encourages teamwork and experts' collaboration from various disciplines. Researchers and educators work together to develop interdisciplinary curriculum, innovative projects. It helps the students with a framework

of topic so they can think in a diverse way. Students get exposed to an environment where they can learn how to communicate effectively and exchange ideas. It provides students with different opportunities so that they can work on it with others.

PROJECT BASED LEARNING:

Students participate in projects that require expertise and skills form diverse fields.

CRITICAL THINKING:

Multidisciplinary approach fosters creativity and enhances students critical thinking skills through a variety of learning tasks and activities. It is the core skill that multidisciplinary approaches seek to cultivate in students.

MULTIPLE INTEGRATION:

Integration of knowledge and methodologies from different academic fields such as technology, engineering, mathematics, humanities is the fundamental aspects of the multidisciplinary approach.

HOLISTIC LEARNING:

It aims to provide students with holistic learning experiences that go beyond the boundaries of traditional disciplines. It encourages the connection of skills and knowledge, and their application to real world problems. It develops a sense of curiosity. It helps in the overall performance of students.

PROBLEM SOLVING:

It helps the students to approach problems from different viewpoints. Students actively collaborate with their classmates.

INTERDISCIPLINARY CONNECTION:

It helps the students recognize the different disciplines

interconnections and understand how knowledge from one field can inform and enrich another.

THEMATIC SUBJECTS:

Lessons are arranged based on specific themes that cover various subjects.

PREPARATION FOR FUTURE:

It helps in enhancing the students mindsets and skills needed for the professional environments and adapt to rapidly changing circumstances.

CHALLENGES OF IMPLEMENTING THE MULTIDISCIPLINARY APPROACH:

Apart from numerous benefits, implementation in educational settings can present certain challenges:

ALLOCATION OF RESOURCES:

Implementation of multidisciplinary programs required some additional resources, such as professional development, research projects and collaborative initiatives.

FACULTY EXPERTISE:

It requires educators who are expertise in multiple disciplines, which may pose challenges in terms of staffing and professional development.

ASSESSMENT METHODS:

It can be complex, as traditional assessment methods may not capture the full range of skills and knowledge acquired through interdisciplinary approaches.

ADVANTAGES OF MULTIDISCIPLINARY EDUCATION:

REAL-LIFE APPLICATION:

It enhances practicality and flexibility in the field of education. Students are able to select topics based on their interests and the real world advantages. Students become more adaptable and able to handle complex issues in future.

NURTURING PASSION:

By engaging students with different academic disciplines, students gain a depth knowledge of their interest and skills. On the other hand, online courses and resources allow learners to explore different interests beyond the limits of a typical classroom. Students can discover their interest during teaching learning journey.

PRIVILEGE TO CHOOSE:

Students get to choose their subjects, courses and programs from different institute.

FLEXIBILITY AND PRAGMATISM:

It enables the students to develop and carve their own path.

ADAPTABILITY:

It provides students with a broad understanding of different disciplines, which help them to adapt to new

situations and environments, where they can learn to be flexible and open-minded.

CAREER OPPORTUNITIES:

It opens the door of career for students, which is not limited to one field. It makes and open options for a diverse range of jobs.

DISADVANTAGES OF MULTIDISCIPLINARY APPROACH:

LENGTHY DECISION MAKING:

Each member contributes their opinion to a problem or situation, it takes long time for everyone to come to a consented decision.

DISTRACTION:

Due to diverse or variety of subjects, take the students feel lost.

CONFUSION:

Subject selection creates lots of confusion in courses.

DIFFERENT MENTALITIES:

Because of different disciplines and backgrounds, it is found that there to be discrepancies in terms of ideas and visions.

CONCLUSION:

Multidisciplinary approach in education merges different disciplines to provide a thorough educational experience. In today's world this approach enables students to explore their knowledge, helpful in their career development, critical thinking, problem-solving, and adaptability. There are some challenges and complexity in preparing student for the real world. Moreover, it is an useful tool for students. Furthermore, a multidisciplinary approach to teaching provides versatility and flexibility, allowing educators to approach subjects in a more engaging and dynamic way.

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