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## INTER-DISCIPLINARY AND MULTI-DISCIPLINARY APPROACH OF EDUCATION

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### Abstract:

Students can establish connections between educational disciplines and recognise correlations through the use of an interdisciplinary approach, which enhances learning in general. The goal of introduction to education is to ensure that all students achieve the highest levels of academic success. It also aids in the development of positive self-concept in students by educating them on the various aspects of teaching. Development has always been advancement or a beneficial change. Every enterprise, from an entity to the entire community, aspires to broaden and keep changing. Working to develop expertise and abilities is very essential if one wants to continue development. Accordingly, education is a crucial attribute that endorses and propels progression on each and every level.

**Keyword:** Interdisciplinary Approach, Multidisciplinary, Better understanding, Skills, Abilities.

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### Introduction:

Education is essential to comprehensive development, from the way you perceive the world to the way you express yourself and how you present yourself, because although self concept is inherently subjective. The progress of a person's personality is accelerated by education. It exposes an individual to various viewpoints and thereby assistance in supplying them with a discrete and inclusive aspiration. Today, the terms "Interdisciplinary" and "Multidisciplinary" are frequently used in education, research, and innovation. Many of us may use these terms without fully comprehending what they mean.

### Research Methodology:

The research paper is based on different approach in education. It is a type of descriptive research paper.

### Objective:

- To study the meaning of Inter-disciplinary and Multi-disciplinary approach in education;
- To study the History of interdisciplinary
- To study the advantages and disadvantages of Inter-disciplinary approach in education;



- To study the advantages and disadvantages of Multi-disciplinary approach in education;

### **Hypothesis;**

- The reason for students to link different concepts and theories from different disciplines to create a better understanding and also to create a positive conceptual framework that leads to a fuller insight.
- This research is important as it will aid in the development of a more co - creative teacher-student, and can find a better way for development in co-dependency.
- It allows students to sculpt their own path by deciding themselves what to choose and by implementing their imagination and technology rather than adhering to the curriculum.

### **Literature review:**

**Interdisciplinary:** In order to collaboratively confront a topic of shared concern, the interdisciplinary approach carries together the competence of multiple fields of study. It enriches scientific findings, boosts educators' intellectual capabilities, reduces uncertainties and administrative bias, endorses and generates fresh possibilities for future investigations, nurtures critical reasoning, and facilitates in the linking of ideas. The requirement for educator collaboration is one of the most significant obstacles to attaining true interdisciplinary study in educational settings. This may be complicated, nevertheless it's not impossible. When professionals from various fields of study work collaboratively, interdisciplinary learning and instruction is improved.

Various disciplines collaborate to achieve a common goal and to assist students in making links among various disciplines or subject areas. These rather interaction promotes the aid in the construction, which enables new knowledge creation and a detailed knowledge of ideas than disciplinary study. Early examples of interdisciplinary education can be traced back to the 1930s curriculum integration concept. However, interdisciplinary education really took off in the 1970s, with a wide range of literature and the establishment of key definitions.

Kockelmans defines interdisciplinary as: "to solve a set of problems whose solution can be achieved only by integrating parts of existing disciplines".

All subsequent attempts at clarifying this theory returned to the necessity of the fusion of two or more disciplines, as well as the idea of a dilemma that cannot be adequately solved with a common framework, allowing for the construction of new techniques for generating wisdom. The need for interdisciplinary ideas arises from the sophistication of the problems to be solved, and modern challenges are highly interdisciplinary.

### **Multidisciplinary:**

A multidisciplinary curriculum entails studying the same topic from multiple disciplines' perspectives. It is also known as cross-disciplinary, which refers to the goal of crossing boundaries between disciplines.



A multidisciplinary approach to curriculum integration emphasises the various perspectives that multiple disciplines can bring to illustrate a theme, subject, or concern. Multiple disciplines are used to study the same topic in a multidisciplinary curriculum.

A multidisciplinary educational strategy is a method of learning that focuses on various perspectives and disciplines of learning to illustrate a theme, concept, or issue. It is the one in which the same concept is learned from multiple disciplines' perspectives. It allows students to broaden their horizons. Multidisciplinary learning is all about developing learners who want to be a master . This method focuses on a complete or all-encompassing method of covering a thought or discussion by merging different knowledge domains. A student gains a weapons of expertise through multidisciplinary learning, which crosses curriculum boundaries to broaden and strengthen learning. This approach can also be taught in both traditional and digital classes, making it simpler to master.

### **History of interdisciplinary approach:**

Plenty of assert that perhaps the concept 'interdisciplinary' stems from the ideologies of Greek philosophers like Plato and Aristotle, who are commonly attributed with the term 'interdisciplinary thinkers'. Those around claim it originated in the twentieth century due to the effects of educational reforms, study, and the exchange of information along all topic limitations.

Interdisciplinary is thought to have arisen in the twentieth century from the social sciences and the many problems which accompanied the closure of World War I. To achieve 'unity of knowledge,' it must be asserted that comprehension post-war troubles such as population changes, accommodation, social protection, battle, human labour, and crime must be tackled by a wide range of distinct disciplines instead of through the perspective of one in particular.

### **Advantages of interdisciplinary education:**

The incentive for students to connect concepts and theories from different disciplines creates a positive conceptual framework that leads to a fuller insight, which is the most frequently observed gain. Unexpectedly, one of the most important—and frequently overlooked—benefits of interdisciplinary education is that it enables students to consider their areas of expertise and recognise the true nature of their discipline.

- A more fulfilling learning experience.
- New opportunities arise as a result of the convergence of two disciplines.
- Demonstrating real-world applications.
- Diverse perspectives.
- Problem-solving adaptability.
- Close the communication gap between professionals.
- Thinking critically.
- Increasing self-assurance.
- Increased creativity.



Reflective practice, synthesis, and analytical abilities are developed and applied to subsequent educational experiences. Interdisciplinary knowledge and application of various disciplines can lead to greater success. Students have a strong desire to learn as they possess a vested interest in learning about subjects that fascinate them. As a matter of fact, the knowledge is frequently based on personal interactions, giving the learning a realistic aim and integrating it to a meaningful context.

As a result, knowledge becomes more impactful, goal oriented, and profound, resulting in learning opportunities that the student will remember for the remaining portion of his or her life.

Since they are evaluating the many and diversified perceptions from which a topic can be examined, students cover subjects with deeper complexity.

Students use and cultivate analytical abilities as they look across disciplinary boundaries to consider other standpoints and begin to contrast and evaluate philosophies throughout subject areas.

#### **Disadvantage of interdisciplinary:**

The main disadvantage of interdisciplinary research is that it can be challenging to create connectivity between multiple disciplines. Interdisciplinary research can also lack consistency and a sense of significance at times.

#### **Impact of Interdisciplinary:**

Assist students in combating their inclinations to hold presumptions. This will be actually achieved by recognising the origin of students' previously existing understandings and exposing them to topic from a variety of perspectives that stimulate their pre-existing notions. This goal is met in two distinct ways by interdisciplinary instruction.

Learn Perspective-Taking Methodologies - the ability to comprehend a variety of viewpoints on a particular subject. Develop Contextual Knowledge, which includes both verbal and process-based information. Combine contradictory insights from various disciplines. Disciplined instruction teaches students why conflicts happen; the reasons and effects of an issue; and the best way for guidelines to deal with the problem of problem. If learning is restricted to one disciplinary approach, confusion is frequently regarded as either a flaw in the conceptual approach or proof that assertions must be introduced in order to offer an accurate prediction. Interdisciplinary education allows learners to comprehend that most concerns they have moral implications. Ethical concerns are involved in ethical considerations, In order to be scientific; many disciplines avoid such subjective phenomena and limit their analysis to more practical considerations.

#### **Interdisciplinary Teaching is Not Too Costly :**

Transitioning from disciplinary to interdisciplinary teaching is not prohibitively expensive. First, since many instructors are acquainted with the techniques and observational methods of related disciplines, obtaining the required merge



of knowledge required for an interdisciplinary instructor will be neither hectic nor lengthy. even because most educators are unaware with interdisciplinary methods of instruction, and most educators are acquainted with assignment modelling - an educational method that encourages learning through analysis - that is foundational to interdisciplinary teaching, instructors aren't required to study and understand a totally new form of teaching methods and interdisciplinary teaching is the fusion of ideas from multiple disciplines, which is a task that most researcher have earlier exercised. Instructors can decide how much of the curriculum is interdisciplinary, in order to implement the standard of interdisciplinarity which is preferred for them given their expertise with this sort of instruction

### **Advantages of multidisciplinary:**

Students have the right to choose their favourite subject, the subject that they want to learn, with multidisciplinary education in colleges. Subjects that can help them improve their knowledge. Subjects that have the potential to raise the educational bar. Not quite the ones which have been imposed on them. Finally, it will aid in the development of a more co - creative teacher-student association.

Even if students are initially unaware of their passion, they can discover it throughout their teaching-learning journey. As a result, the pairing has the potential to enhance students' self - development. It encourages them to acquire a realistic mindset by making it possible for them to choose which subjects to study and what perks they may receive. They have enough time to weigh the risks and benefits before making a decision. A multidisciplinary programme, therefore, brings practicality and adaptively to the podium.

It allows students to sculpt their own road by implementing their imagination and technology rather than adhering to the curriculum pre-determined by the schooling institutions. A students acquire overall skills such as problem-solving, critical analysis, multitasking, personality, interaction and composing, evaluation and investigation methods and techniques, collaboration, and much more through this method.

The skills you learn here are easily adaptable to other work settings. And will be beneficial in all fields. It provides a comprehensive understanding of various points of view. Learning is a complicated with many patterns, principles, and ideologies, and it is essential to decide which system better fits your way of learning. And multidisciplinary methods may assist you accomplish this. Having to learn without limitations contributes to the development of more applicable and open to interpretation learners. A better understanding of issues and ideas results to more insightful future decisions. A student gains the ability to gather and collaborate with people from all walks of life, which will assist them perform properly in the corporate world. It assists learners to grasp the power of new ideologies.

### **Disadvantages of Multidisciplinary Approach:**

Students may feel disoriented as they switch between subjects and courses. The only way that can keep them from becoming distracted is to strategize and keep track of their daily tasks. If you've learned everything but haven't mastered one skill that makes a difference,



then the rest of the knowledge is useless. Students must have expertise in one area that interests them. one must ensure that students achieve mastery in at least one domain. Even students may feel confused about the choosing of subjects and courses and the topics they wanted to have a specialization for their main carrier

### **Career options with a multidisciplinary:**

Not all students pursue a multidisciplinary qualification for professional purposes; numerous individuals choose this option in order to pursue individual ambitions and deepen their knowledge in a variety of fields. Multidisciplinary student enrolled for financial reasons, on the other hand, have the chance to pursue a huge spectrum of professional lives because of their varied individual and professional preferences and the wide selection of topics that are accessible to them for example

If you really are uncertain to either study biology or engineering subjects for a career, it would be very much depend on the characteristics of role that you want to pursue.

As envisioned by the NEP-2020, it is recommended that multidisciplinary institutions and academic institutions be established all across the country. This policy also advocated for the implementation of a four-year integrated teacher preparation program in multidisciplinary colleges and universities. Students from will get advantage from incorporating this scheme.

Diverse fields such as the arts, humanities, commerce, science, and so on can also be beneficial for students. This will spare them time and enable them to take part in the teaching-learning process more effectively.

It is required to publicise the primitive gurukul system in keeping with the present educational system. Gurukuls have been educational institutions in which most Indian boys and girls have been enhanced and trained with all the necessary abilities and expertise. The pupils were exposed to a broad spectrum of information within this system. As a result, it is necessary to recall this ancient educational system.

It is recommended by the NEP-2020, this strategy is fairly innovative, well endowed with the most subsequent abilities and strategies, and thus students enrolled in this technique will conveniently stay consistent to handle the more latest advancements in the worldwide system of education and establish a challenging attitude as a member of a community.

It is essential to bring together different subjects via a single framework, and thus the achievement of this approach is highly reliant upon the most current structural and qualified developments

### **Conclusion:**

Students have now gown in very competitive world which need abilities and skills to make a living and to enjoy the best of everything for that they need a proper education system which can ensure then about their future security furthermore many





people believes interdisciplinary way of approach towards education is bet and some tends towards multidisciplinary one. Many students have different levels and technique, according to their capacity and abilities. Trying to forcefully impose a career is same as choosing the way they wanted to learn. It should depend on the students the way they want to learn according to their number of interest and capacity. Though multidisciplinary approaches have been more flourished due to multiple choices they can make for a secured future.

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