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"INDISPENSABILITY OF INTEGRATING THREE LEARNING DOMAINS IN TEACHING AND LEARNING"

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Abstract

This article explores the three fundamental domains of learning: cognitive, affective, and psychomotor. It highlights the importance of addressing these domains in teaching and learning to create a comprehensive and well-rounded educational experience. The cognitive domain focuses on knowledge acquisition, comprehension, application, analysis, synthesis, and assessment. The affective domain delves into emotions, attitudes, and values, influencing motivation and engagement. The psychomotor domain encompasses physical movements, coordination, and motor skills development. The article discusses each domain in detail, providing insights into enhancing cognitive abilities, promoting emotional well-being, and refining motor skills. It emphasizes the need for educators to integrate all three domains in instructional design to cater to diverse learning modalities and styles. The study utilizes a qualitative research design, drawing on secondary sources of data from related literature. By incorporating the cognitive, affective, and psychomotor domains, educators can create a dynamic and inclusive learning environment that fosters critical thinking, emotional resilience, and practical skills. The article concludes with implications for higher education institutions to adopt a comprehensive approach to education and design curricula that address these domains to meet the diverse needs of students.

Keywords: Domain, Cognitive, Affective and Psycho-motor

1. Introduction

In teaching and learning, there are several recognized learning domains that encompass different types of knowledge and skills. These domains are commonly used to structure curriculum, design learning activities, and assess student learning. The three main learning domains are cognitive, affective and psychomotor. It is important for educators to consider all three learning domains when designing instruction and assessments to ensure a holistic and well-rounded learning experience for students. By addressing the cognitive, psychomotor, and affective domains, teachers can help students develop a wide range of knowledge, skills, and attitudes. A key component of teaching is the creation and delivery of lessons by teachers. Three learning domains of cognitive (thinking), affective (emotions or feeling), and psychomotor (physical or kinesthetic) are often heard as must-attain matters in teaching-learning practice, and this is where instructors wonder in. It is also thought provoking that we, instructors, universally comprehend there are several types of

learners. They require differing levels of support, necessitating the use of various strategies in class design and delivery to meet their requirements. The 'Every Child Matters' framework being progressively embraced by the educational community necessitates counting every learner, regardless of need.

2. Objective of the Study

This article aims to explore the fundamental aspects of learning and the different domains in which it occurs. Understanding how learning takes place is crucial for educators, trainers, and individuals seeking personal and professional development, as it allows for a more comprehensive approach to learning experiences. The article begins by introducing the three learning domains: cognitive, affective, and psychomotor. Each domain represents a distinct aspect of human learning, encompassing various skills, processes, and behaviors. By delving into these domains, readers will gain a deeper understanding of how knowledge is acquired, emotions are engaged, and physical actions are performed during the learning process. As we conjointly argue in favor of a comprehensive pedagogical framework, this investigation acts as a affluence for future studies and a deeper examination of the complex aspects of teaching and learning.

3. Materials and Methods

This study followed qualitative research design. In this design I adopted document study method. Articles were identified through internet and library searches. Key word and phrase related articles were used. In this study I utilized secondary sources of data by using related literature from internet sources.

4. Discussion

The Three Domains of Learning were initially created between 1956 and 1972, and several scholars and professionals in the realm of educational pursuits have made significant contributions. The three learning domains (cognitive, emotional, and psychomotor) have been the subject of studies by Benjamin Bloom, David Krathwohl, and Anita Harrow (Sousa, 2016).

When creating learning assignments for learners, a teacher must take into account all three domains to create a holistic lesson. Such learning assignments' diversity contributes to a relatively well-rounded learning experience that accommodates a variety of learning modalities and learning styles. Students are more engaged when lessons are delivered in a more diverse manner.

The Cognitive Domain

The cognitive learning domain focuses on intellect: the comprehension of information and how it expands by means of use ranging from simple recollection to complicated evaluation and creativity. Learning encourages the development of new abilities as well as helps in attitude development. The cognitive domain attempts to improve a person's cognitive abilities and knowledge acquisition. The six categories that make up the cognitive domain are knowledge, comprehension, application, analysis, synthesis, and assessment.

Knowledge comprises the learner's capacity for knowledge retention. This is then followed by comprehension which evaluates a student's understanding of the significance of what they have learned. This occurs when a learner can articulate an established theory in their own terms (Anderson et al, 2011). The next step is application, which demonstrates the student's capacity to apply abstract information to a novel scenario. An example of this is when a student of economics is able to use the theory of demand and supply to analyze how the market is changing for apparel during a specific season. Analysis seeks to distinguish between facts and views. The synthesis category demonstrates the capacity to combine many parts or ideas into a solid pattern or structure that contributes to the creation of new meaning. The assessment category demonstrates the capacity to assess the significance of concepts. An example of this is when a manager is able to find and use the most economical manufacturing techniques in an effort to boost earnings while maintaining a significant competitive edge.

In light of this, the cognitive domain of teaching and learning is concerned with the growth of the mind and the acquisition of information, abilities, and understanding. Teachers work to improve their pupils' critical reasoning, problem-solving, and thinking skills in this area. It requires activities like knowledge memorization, comprehension, analysis, synthesis, and evaluation. To stimulate students' brain processes and encourage higher-order thinking, teachers use a variety of instructional tactics, including lectures, discussions, simulations, and hands-on activities. Quizzes, tests, essays, and projects that measure students' capacity to effectively apply their information are frequently included in assessments in the cognitive domain. Thus, the intellectual aspects of learning, encompassing processes such as acquiring knowledge, comprehending information, and applying critical thinking skills are included in this domain. Exploring this domain provides insights into strategies for enhancing cognitive abilities, improving problem-solving skills, and fostering effective learning techniques.

The Affective Domain

As we move from a low order activity, like listening to a higher order one like addressing a problem, our emotions toward learning change. This is known as the affective learning domain. Feelings, emotions, and attitudes are all part of the affective domain. Receiving phenomena, reacting to phenomena, valuing, organizing, and characterizing are the categories of the affective domain (Anderson et al, 2011). The subdomain of **receiving phenomenon** results in feelings and emotion awareness including the capacity to focus particular attention. This may entail paying close attention throughout class lectures. The learner must actively participate in class or during group discussions in order to successfully complete the next subdomain of **reacting to phenomena** (Cannon and Feinstein, 2005). In order to **value** anything, one must be able to recognize and communicate its value. This involves the student's capacity to express opinions and ideas on various issues brought up in class. **Organization** is the capacity of the learner to rank one value over another and develop a special set of values. This might be evaluated in light of the requirement to

prioritize one's scholarly endeavors over their interpersonal connections. Having the capacity to internalize values and allow them to guide one's conduct is explained by the subdomain of **characterization**. Given this, a student places a high value on their academic work because it determines their professional route, not just what may be offered.

The affective domain delves into the emotional and attitudinal dimensions of learning. It examines how learners' feelings, values, and beliefs influence their motivation, engagement, and overall learning outcomes. Exploring this domain helps gain insights into creating a positive and supportive learning environment, fostering learner motivation, and promoting emotional well-being during the learning journey. The emotional and social facets of education are thus included by the affective domain of teaching and learning. The attitudes, values, beliefs, and sentiments of the students are all addressed in this domain. Education professionals want to inspire ethical conduct, create empathy, and foster favorable attitudes toward learning. Students' social and emotional development can be fostered through exercises like role-playing, group discussions, and community service. Students can express their emotions and think back on their personal growth through reflective journals, self-assessments, peer evaluations, and other subjective assessment methods used in the emotional domain.

The Psychomotor Domain

The psychomotor domain includes both using one's motor abilities and being able to control them well. The psychomotor learning domain focuses on our physicality and how it progresses from simple motor abilities to complex performance. There are various subdomains within the psychomotor domain, including perception, set, guided response, mechanism, complex overt response, adaptability, and origination. **Perception** heavily relies on the ability to combine sensory information with motor activity. A student could, for instance, practice a few of the exercises from a text book in an effort to do better on examinations. Set is a subdomain that deals with being equipped to react to diverse challenges. It includes the ability to imitate a shown action or to tackle an issue by trying several solutions until one works (Sousa, 2011). The capacity to expertly and confidently transform learnt responses into deeply rooted habits falls under the subdomain of **mechanism**. After answering several previous questions with confidence, students are able to solve test problems. The capacity to expertly carry out complicated sequences of activities is explained by complex overt responses. The capacity of an apprentice to enhance their typing speed when using a computer is a classic example. The domain of adaptability demonstrates the capacity to adjust taught abilities to accommodate unique situations. One example is when a student who has learned numerous fundamental principles is able to innovate something new or build a functional model out of commonplace items. Origination also entails developing fresh movement styles for a particular circumstance (Sincero,

The psychomotor domain encompasses physical movements, coordination, and the development of motor skills. Understanding this domain is particularly more relevant

for areas such as sports, arts, and applied disciplines. Examining the psychomotor domain will contribute discovering strategies for enhancing motor skills, refining coordination, and promoting physical dexterity in various learning contexts. To put it briefly, physical abilities and coordination are fundamental to the psychomotor domain of teaching and learning. It includes the growth of motor abilities, reflexes, and muscle memory. This field is especially important in areas like sports, the arts, and vocational training where practical experience is crucial for mastery. Students' physical aptitude and dexterity are enhanced by teachers through demonstrations, practice sessions, and hands-on activities. In order to gauge how well students can use their physical abilities, assessments in the psychomotor domain include practical tests, skill demonstrations, and performance reviews. Incorporating the three learning domains - cognitive, affective, and psychomotor - in the teaching-learning process has indisputable significance. By recognizing the interdependence and unique contributions of each domain, educators can create holistic and effective learning experiences for their students. The cognitive domain fosters intellectual growth and critical thinking, the affective domain nurtures emotional intelligence and motivation, while the psychomotor domain enhances practical skills and physical abilities. Embracing a balanced approach to education that integrates all three domains not only enhances students' overall learning outcomes but also cultivates well-rounded individuals capable of succeeding in an ever-changing world.

5. Conclusion

Every person's existence revolves on learning. It is essential for growth and development, thus both students and more importantly teachers must be dedicated to the process. Additionally, it is crucial to make sure that the manner in which learning is delivered typically integrates the many elements that have been designated as learning domains. Considering the growing necessity to use a variety of teaching methods and tactics while instructing followers, it is critical that teachers have a teaching strategy that incorporates a variety of learning areas so that teaching and learning may be thought of as successful. It is because learning is not merely an event; it is a process. It is the continual growth and change in the brain's architecture that results from the many ways we take in information, process it, connect it, catalogue it, and use it; and sometimes get rid of it.

Learning has been, in such a way, categorized generally into three domains: cognitive, affective, and psychomotor. Within each domain there are multiple levels of learning that progress from more basic, surface-level learning to more complex, deeper-level learning. The level of learning we strive to impact will vary across learning experiences depending on 1) the nature of the experience, 2) the developmental levels of the participating students, and 3) the duration and intensity of the experience. When pondering on teaching learning objectives, it is important to think about which domain(s) is relevant to the learning experience instructors are designing. In a précis, learning is an essential aspect of personal growth and development, requiring both students and teachers' commitment. To ensure effective teaching and

learning, it is decisive to incorporate the three domains of learning, considering the diverse strategies and techniques necessary for student instruction.

6. Implications

Being a higher education institution with QAA (Quality Assurance and Accreditation) recognition, SSMC (Shaheed Smriti Multiple Campus) must do its utmost to make sure all facilitators use the finest delivery methods that will have a beneficial influence on the students' Cognitive, Affective, and Psychomotor Domains. It takes more than hiring qualified lecturers with relevant experience, setting up training sessions and workshops on pedagogy or andragogy, or research writing, to succeed. The input from the outcomes of all external assessments and standards will be used to guide future initiatives. Many of our graduates are in gainful employment or have jobs that provide a better living wage in Nepal and several other Asian, European, and other realms.

We take great pride in the fact that we have a successful history of giving youngsters, not just from Chitwan but also from other parts of the nation, the greatest education possible. A QAA certified campus ought to strive to achieve this for the reason that in today's globalized, competitive world, learning must go beyond reading and memorization of facts and information to include the ability to critically evaluate the information, explain to others, and design things for everyday use.

It would be strongly applauded incorporating the three learning domains-cognitive, emotional, and psychomotor to enhance the educational experience on our campus and foster a comprehensive approach to education. By integrating these domains into our curriculum and campus environment, we can create a dynamic and inclusive learning environment that meets the diverse needs of our students.

Integrating the cognitive domain will promote knowledge acquisition, problem-solving, and critical thinking. We can enhance students' analytical abilities and deepen their understanding of complex concepts by designing learning activities that challenge their intellect and encourage active engagement. Allowing students to reflect, discuss, and apply their knowledge in real-world situations will foster lifelong learning skills and adaptability.

Focusing on the affective domain will foster emotional well-being and motivation. By acknowledging the importance of students' emotions, attitudes, and beliefs, we can cultivate a supportive and welcoming campus culture. Strategies such as cooperative learning, fostering a growth mindset, and providing mentorship and guidance will help develop positive attitudes toward learning and increase overall student engagement.

Incorporating the psychomotor domain will enable students to gain practical knowledge, physical coordination, and hands-on experience. By offering experiential learning opportunities, internships, and practical courses, students can apply their academic knowledge in real-life scenarios. Equipping our facilities with state-of-the-art resources will help students develop valuable skills sought after in the job market. Implementing these three learning domains will create a well-rounded educational experience that caters to our students' diverse needs. By embracing these domains, we

can empower students to become critical thinkers, emotionally resilient individuals, and skilled practitioners in their respective fields. Adopting this comprehensive approach to learning will cultivate a vibrant and thriving learning community, preparing our students for success in their academic pursuits and future endeavors.

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