

MULTIDISCIPLINARY EDUCATIONAL APPROACHES-NEP2020

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ABSTRACT

Multidisciplinary education is a type of educational strategy that combines various disciplines to produce a comprehensive learning environment. It is intended to promote an understanding of how various fields are connected to one another and how they can be combined for improved problem-solving. This strategy promotes critical thinking, collaboration, communication, and creative thinking. The three main categories of modern approaches to curricular integration, according to the International Bureau of Education (IBE-UNESCO), are multidisciplinary, interdisciplinary, and transdisciplinary. India has a long history of interdisciplinary and holistic education, from institutions like Takshashila and Nalanda to the vast body of literature in India that combines topics from various disciplines. A good education was defined as knowledge of the 64 Kalaas, or arts, in ancient Indian literature like Banabhatta & Kadambari. These 64 arts included not only subjects like singing and painting but also scientific fields like chemistry and mathematics, vocational fields like carpentry and clothes-making, professional fields like medicine and engineering, and soft skills like communication, discussion, and debate. New National Education Policy 2020 play a very important role Towards a More Holistic and Multidisciplinary Education. NEP-2020 states that education must produce all-rounders who excel in every area of life. The comprehensive and holistic education that will be provided in the NEP-2020 era will have it as its goal and objective.

INTRODUCTION

Multidisciplinary schooling is a shape of instructional approach that brings collectively a couple of disciplines to create a holistic studying experience. It is designed to foster an knowledge of the interconnectedness of numerous fields and the way they may be incorporated for higher hassle-fixing. Multidisciplinary schooling, if applied in faculties and colleges, lets in college students to benefit a deeper know-how of the problem depend thru the lens of various disciplines. This technique encourages innovative questioning, important analysis, collaboration, and verbal exchange competencies. The International Bureau of Education (IBE-UNESCO) specifies 3 foremost kinds of modern-day technique to curriculum integration: multidisciplinary, interdisciplinary and transdisciplinary. Multidisciplinary curriculum is reading a subject from the point of view of multiple subject and fixing a hassle the use of a unique disciplinary technique (Klaassen, 2018). For instance, decreasing the CO2 emissions from a automobile may be done via way of means of reading the way to broaden gasoline chemistry or through reading the way to enhance automobile engine performance.

Interdisciplinary curriculum is knowing theories that reduce throughout disciplines and spotlight the method and that means in preference to combining distinct field contents (Odeh et al., 2017). For instance, the layout of a clinical tool calls for engineering abilities in addition to the expertise of a selected human organ's function. Transdisciplinary curriculum is putting off the limits among the center disciplines, integrating them to assemble new context of real-international subject matters and

introducing a sub-important movement direction (Doyle et al., 2018). For instance within the remaining century, mechanical engineering curriculum has been included with the electronics and pc engineering curriculum to introduce the mechatronics engineering curriculum, that is referred to as now robotics.

AIMS OF MULTIDISCIPLINARY SCHOOLING

- Main purpose at the back of changing all streams of training into multi-disciplinary shape is to provide multi-dimensional well-rounded people prepared with all forms of expertise, abilities, skills and expertise approximately life, people, places, arts, sciences, languages and technology too.
- Apart from constructing capacities, improving abilities, shaping attitudes, selling flair and proficiency, enhancing motivation and efficiency, multi-disciplinary training might be provided to construct character, persona, intellect, physique, fantastic insights and outlooks of inexperienced persons and remodel them into ethical, rational, compassionate and being concerned citizens.
- At the equal time making ready them for worthwhile and contributing employment that allows them to go away a wealthy legacy in the back of and pay again to the society in a single high quality shape or the different.
- Multidisciplinary and holistic schooling goals to broaden numerous capacities of people consisting of intellectual, aesthetic, social, physical, emotional, interpersonal, humanistic and ethical capacities in an incorporated manner.
- This form of multidisciplinary and holistic schooling will in due direction of time be followed in all undergraduate and post-graduate programmes, which includes the ones in expert, technical and vocational disciplines.
- Multidisciplinary and holistic schooling ambitions to expand various capacities of humans which include intellectual, aesthetic, social, physical, emotional, interpersonal, humanistic and ethical capacities in an incorporated manner.
- It pursues to make the beginners recognize and recognize some thing approximately the whole lot, many stuff approximately some thing and the whole lot approximately one thing.
- It envisages to lead them to informed and in a position in numerous regions however gifted and professional in most effective one in all their selected regions of specialization, with the aid of using creating a preference of 1 important and minor topics with honours or studies at undergraduate degree accompanied through one or - 12 months post-commencement programme with studies. Therefore, “undisciplining of information” is a want of the hour and churning out “undisciplinarians”, who don’t comply with best one area of understanding at some point of their life, is what NEP-2020 intends to achieve.

HISTORY

India has an extended way of life of holistic and multidisciplinary studying, from universities including Takshashila and Nalanda, to the huge literatures of India combining topics throughout fields. Ancient Indian literary works including Banabhatta’s Kadambari defined an amazing schooling as information of the sixty four Kalaas or arts; and amongst those sixty four ‘arts’ have been now no longer best topics, consisting of making a song and painting, however also ‘scientific’ fields, inclusive of chemistry and mathematics, ‘vocational’ fields together with carpentry and clothes-making, ‘expert’ fields, consisting of medicinal drug and engineering, in addition to ‘gentle abilities’ together with verbal exchange, discussion, and debate. The very concept that each one branches of innovative human endeavour, inclusive of mathematics, science, vocational topics, expert topics, and gentle abilities must be considered ‘arts’, has surprisingly Indian origins. This perception of a ‘information of many arts’ or what in current instances is frequently referred to as the ‘liberal arts’ (i.e., a liberal perception of the arts) need to be added again to Indian schooling, as it’s far precisely the type of schooling so as to be required for the twenty first century. Even Vedas and different historical spiritual scriptures, Hadith, verses of Holy Quran profess and pontificate harmony and integrity of information and beseech us to discover nature holistically and are seeking understanding of all kinds.

Role of New National Education Policy 2020- Towards a More Holistic and Multidisciplinary Education

Education ought to create all-rounders who serve like champions in each stroll of life. That is the purpose and goal of multidisciplinary and holistic schooling so one can be provided withinside the NEP-2020 era. As according to NEP-2020 there must be no difficult separations among arts and sciences, among curricular and extra-curricular activities, among vocational and educational streams. In order to do away with unnecessary hierarchies amongst disciplines and dismantle silos among one-of-a-kind regions of studying, NEP-2020 promotes multi-disciplinary and holistic training with a broader goal to foster cohesion and integrity of understanding except duly recognizing, figuring out and nurturing the specific competencies of each student, through sensitizing instructors in addition to dad and mom to sell every student's holistic improvement in each educational and non-instructional domains. By the yr 2040, all better schooling establishments shall try to end up multidisciplinary establishments, every of with a view to have 3000 or extra college students. There shall, via way of means of 2030, be as a minimum one big Multidisciplinary Education and Research Universities (MERU) in each district of the country. Assessments of tutorial techniques in undergraduate training that combine the arts and humanities with Science, Technology, Engineering and Mathematics (STEM) have constantly confirmed tremendous gaining knowledge of outcomes, which includes multiplied creativity and innovation, crucial wondering and better-order wondering capacities, hassle-fixing abilities, teamwork, verbal exchange competencies, extra indepth studying and mastery of curricula throughout fields, will increase in social and ethical awareness, etc., except popular engagement and entertainment of gaining knowledge of. Research is likewise stepped forward and more suitable thru a holistic and multidisciplinary schooling metho

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