DIMENSIONS OF EDUCATION IN TEACHING AND LEARNING

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Edited by
Ramesh Kumar Awasthi

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DIMENSIONS OF EDUCATION IN TEACHING AND LEARNING

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This book is dedicated to

"my respected mother, father's, family members"
and all my respected Teachers.

मातृ देवो भव, पितृ देवो भव।
आचार्य देवो भव, अतिथि देवो भव॥

Treat thy mother as a God; as a God treat thou thy father; as a God shalt thou treat thy teacher; thy guests as Gods shalt thou treat.

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Foreword

It is a pleasure to write this foreword to the edited book of the highly successful "Dimensions of Education in Teaching and Learning" in Higher Education. While its contributors are mainly Indian and there are places where it necessarily addresses a specifically Indian context, this is a collection that has genuine international appeal and relevance. For, across much of the globe, the world of teaching and learning in higher education is being shaped by similar phenomena: a larger, more demanding, and more diverse student body, a pervasive language of quality and accountability, rapidly changing technological possibilities yet uneven levels of student familiarity with them, more demanding arrangements with governments, and expectations by students and employers that graduates will be equipped for rapidly changing and globalizing workplaces.

In 1840, the essayist Thomas Carlyle wrote that "the true University of these days is a collection of books". On this evidence alone, it's safe to say that Carlyle may not recognize the universities of today. Decades of significant developments in pedagogy, research methods, and journal publishing, enabled by expansion, globalization, research assessment, and the impact and knowledge

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exchange agendas have transformed our understanding of what a university can be, for the better.

Universal Declaration of Human Rights declares, "Everyone has the right to education". Education is a fundamental tool for achieving full human potential, developing an equitable and just society, and promoting national development. Providing universal access to quality education is the key to economic growth, social justice and equality, scientific advancement, national integration, and cultural preservation. India will have the highest youth population in the world over a couple of years, and the ability to provide high-quality educational opportunities will help them to shape the future of our country.

In the 21st century, universities must be at the forefront of embracing the opportunities brought about by new technologies as well as understanding and overcoming their limitations. For these reasons, I warmly welcome this new publication on edited books in education, which sheds much-needed light on the significant opportunities for edited books to transform and improve the learning experience for students. Throughout this publication the inventiveness and perspicacity shown by academics and librarians to deliver improvements to education by embracing the opportunities of edited books are striking. The future of edited books in higher education is in safe hands.

Today is the global situation of the world has worsened due to the COVID-19 pandemic, as teachers we work hard to provide learning experiences that ensure that every day in every classroom, every student is achieving. Critically, in designing any learning, we seek to understand the readiness of all learners and set challenging but achievable learning goals. We know that improving levels of student achievement depends on all of us working together and striving for continual improvement.

I congratulate Mr. Ramesh Kumar Awasthi for the efficient editing of this book as well as research scholars, academicians, and

faculty members, whose supports have made this book concept in concrete form.

With greetings and best wishes to Editor and Contributors.

11 March 2021
Mahashivratri



Professor S.N. Pandey
Pro-Chancellor
The Global Open University Nagaland

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Preface

Improvements in the quality and, to some extent, the efficiency and equity of education depend on the nexus of teaching and learning. Schooling, the formal teaching-learning environment, can be influenced by resources and ideas from many sources. However, to a degree, it is a self-contained system, and different schools (or even classrooms) may respond to a given set of inputs in different ways. This condition implies that the characteristics, meaning, and effects of the interaction of teachers and students may be influenced through national policies.

Education is a positive construct that empowers people to make use of its potentialities in the best ways to achieve excellence. Research in this endeavor tries to resolve various problems related to education, the educational process, and educational advancements. Thereby, keeping education updated and advanced in turn preparing updated positive and constructive citizens of the society. Today an educated person is expected to be equipped with the most advanced knowledge, skills, humane values, and digitalization, including evaluation of existing policies and bringing out components & variables to be covered by forthcoming policies. Thus, research is positively correlated with human and material development, ensuring a humane and developed society. The strength of an institution is reflected by the researches undertaken by the members over there.

The world is undergoing rapid changes in the knowledge landscape. With the rise of big data, machine learning, and artificial intelligence, many unskilled jobs worldwide may be taken over by machines, while the need for skilled labor, particularly involving mathematics, computer science, and data science, in conjunction

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with multi-disciplinary abilities across the sciences, social sciences and humanities, will be in rapidly increasing demand.

In the digital world, it is a must that a student immediately feels the benefit of the content you are teaching. So, never start with a typical 'Welcome' or 'Here's what we're going to learn today. Instead, begin your content with headlines and with hooks. Students only pay attention in classrooms if they see how your content is beneficial for them and should also feel the pain of missing this benefit of the lecture. Students want something super powerful, 100% attention grabber gold in the form of teaching, and that too right now.

Education for the 21st century in various Dimension of Education. Dimensions include knowledge, skills, character, and metacognition. In the knowledge domain, he speaks about the need for young people to become both specialists and generalists, learning a field of study in-depth and yet also appreciating and understanding how their specialty connects to other disciplines. Also, he argues that we must introduce students to interdisciplinary knowledge critical to tackling many of the challenges facing society today. In the sphere of skills, he underscores the significance of four skill categories: critical thinking, creativity, communication, and collaboration. He also notes the importance of supporting students to utilize these skills to apply their knowledge to new problems, that knowledge and skills are not sufficient in today's world. We must support students' character development to ensure that they develop the qualities necessary to contribute to shaping a better world. These include mindfulness, curiosity, courage, resilience, ethics, and leadership.

I am grateful for the efficient editing of this book as well as teachers, academicians, research scholars, students, and faculty members, whose supports have made this book concept in concrete form.

With greetings and best wishes to the Contributors.

Ramesh Kumar Awasthi

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