PREFACE

We are pleased to present *Volume 3, Issue 2* of the *Natural Sciences and Applied Technology (NSAT)*, featuring a collection of **52 high-impact research articles** comprising more than **890 pages** of interdisciplinary scientific and technological contributions.

This issue represents a carefully selected body of research from a substantial pool of submissions. For the present issue, a total of **122 manuscripts** were received and subjected to editorial assessment and peer-review processes. Following careful evaluation, **52 manuscripts** were selected for publication. The remaining submissions were not accepted primarily on the grounds of limited relevance to the objectives and scope of the journal, insufficient novelty or originality, and concerns regarding technical soundness, methodological rigor, or overall scientific quality. This selective process reflects the continued commitment of NSAT to maintaining high standards of relevance, originality, technical quality, and scientific integrity.

The present issue demonstrates the broad and interdisciplinary character of NSAT. The published contributions cover a diverse range of research areas, including **Artificial Intelligence, Machine Learning, Computer Science, Data Science, Engineering and Technology, Medical Sciences, Public Health, Biological Sciences, Pharmacy, Physics, Chemical Sciences, Environmental Sciences, Renewable Energy, Materials Science, Economics, Education, Social Sciences, and Sustainable Development**.

The diversity of topics represented in this issue reflects the journal's objective of providing a common platform for fundamental scientific research, applied investigation, technological innovation, and interdisciplinary scholarship. We believe that bringing together research from these complementary fields can encourage meaningful academic exchange and create opportunities for collaboration across traditional disciplinary boundaries.

We are particularly grateful to the authors who contributed their research to this issue and to the reviewers and editorial members who devoted their time and expertise to the evaluation of the submitted manuscripts. The rigorous selection process has been an important part of maintaining the quality and credibility of the journal.

The complete issue and the published articles are available through the journal website:

https://www.insat-res.in/nsat-issues

The complete collection of articles may also be accessed through the following repository:

Article Collection

We encourage researchers, academicians, practitioners, and students to explore these contributions, share the published findings, and engage with the authors through further research and collaboration. We hope that the articles presented in *NSAT Volume 3, Issue 2* will contribute to the advancement of knowledge and stimulate further research in natural sciences, applied sciences, engineering, technology, and related interdisciplinary fields.

On behalf of the Editorial Board and the **Institute of Natural Sciences and Applied Technology (INSAT)**, I extend my sincere appreciation to all authors, reviewers, editors, and members of the research community whose contributions and support have made this issue possible.

Editor-in-Chief
Natural Sciences and Applied Technology