

## Preface The 1<sup>st</sup> ICEST2019

The International Conference on Engineering Science and Technology (ICEST 2019) is the first international conference organized by Malahayati University Lampung Indonesia. The goal of the conference is to facilitate researchers around the world to publish and to share their current research. The 2019 edition of the conference held in Lampung, Indonesia on August 29, 2019 at Malahayati University, Lampung Indonesia. These proceeding contains the selected scientific manuscripts submitted to the conference. It is with great pleasure to welcome you to the "1<sup>st</sup> International Conference on Engineering Science and Technology (ICEST 2019) " that is held at Lampung, Indonesia. The call for papers attracted submissions of over more than 50 abstracts from both local and international universities. Thanks to Universiti Malaysia Pahang (UMP), Abulyatama University Aceh, IST AKPRIND Yogyakarta, Batanghari University and Semarang State University to become as Co-Organizer for this conference.

The scientific papers published in these proceeding have been revised and approved by the technical committee of the 1<sup>st</sup> ICEST2019. All of the papers exhibit clear, concise, and precise expositions that appeal to a broad international readership interested in science, technology and engineering. The topics of the Conference were: (1) Mechanical and Industrial Engineering; (2) Civil Engineering; (3) Computer and Informatics Engineering; (4) Development and Environmental Engineering; (5) Electrical Engineering; and (6) Agricultural Engineering.

The reports present original ideas or results of general significant supported by clear reasoning and compelling evidence, and employ methods, theories and practices relevant to the research. The authors state clearly the questions and the significance of their research to theory and practice, describe how the research contributes to new knowledge, and provide tables and figures that meaningfully add to the narrative. In this edition of representatives coming from academia, industry, governmental and private sectors. The plenary and invited speakers present, discuss, promote, and disseminate research in all fields of mechanical engineering in a constructive manner. Numerous social events that provide opportunities for the participants to renew old contacts and establish new ones were scheduled to accompany and follow the scientific activities.

Malahayati University would like to thank the Organizing Committee, Co-Organizer and Sponsors supporting the conference and everyone who contributed along the conference and publication of these proceeding.

Dr Eng Rina Febrina, S.T, M.T  
The Chairman of ICEST2019

Assoc. Prof. Dr Mohd Shahrir Mohd Sani  
The Chief Editor of ICEST2019

