

Preface

We are glad to welcome you to the proceeding that comprises the selected peer-reviewed articles presented at the 5th EPI International Conference on Science and Engineering (EICSE) 2021, which was held virtually during September 28-29, 2021.

The EPI International Conference on Science and Engineering (EICSE) is an annual international conference held by the Center of Technology (COT), Faculty of Engineering, Universitas Hasanuddin. The conference is one of the activities conducted to commemorate the anniversary of Faculty of Engineering, Universitas Hasanuddin every year. The word “EPI” in the seminar title is an abbreviation of the eastern part of Indonesia and was taken to emphasize that the seminar is held at the Faculty of Engineering Campus, Universitas Hasanuddin, which is the biggest engineering faculty in the eastern part of Indonesia.

This conference is a valuable opportunity to lectures and researchers to present and publish their research results.

This edition is devoted to the investigation of some latest issues in structural mechanics. Vibration research of plate structures, analysis of critical load on quadrilateral and circular hollow pipes under pure bending and pure torsion and also laboratory testing and numerical analysis on reinforced concrete frames with prefabricated cellular lightweight concrete are the main covered topics.

The presented research results will be interesting to mechanical engineers in structural engineering.