



# IPDIMS 2021




## 3<sup>rd</sup> Innovative Product Design and Intelligent Manufacturing Systems

### Certificate of Participation

This is to certify that S Sumanth Sagar of BMS Institute of technology presented the paper titled Performance Optimization of an Exhaust System for 4 Cylinder Engine by Implementation of Computational Fluid Dynamics, Acoustic and Thermal Analysis co-authored by Mohammed Aiyhan Ali Khan, Sanjay Raghav S at the international conference on 3<sup>rd</sup> Innovative Product Design and Intelligent Manufacturing Systems (IPDIMS) during 30<sup>th</sup> & 31<sup>st</sup> December 2021, jointly organized by Department of Industrial Design and Department of Mechanical Engineering of NIT, Rourkela.

  
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