



University of Newcastle upon Tyne

Faculty of  
Science, Agriculture and Engineering

**Arun Ravi VARMA**

was awarded the Degree of

**Master of Philosophy**

in recognition of a thesis entitled

**PHYSICAL ANALYSIS AND MODELLING OF TURBULENT PREMIXED  
COMBUSTION USING DIRECT NUMERICAL SIMULATIONS**

on

22 December 2021

VICE-CHANCELLOR & PRESIDENT

REGISTRAR

