



19/1648/515CR1002



National Institute of Technology Rourkela

Upon the recommendation of the Senate,
hereby confers the degree of

Doctor of Philosophy

on

Akbar Basha Shaik

who has successfully defended the thesis entitled
“Design, Composition Optimization, Fabrication, and Properties of
 $Al_2O_3/ZrO_2/SrO$ based Articulating Hip Prosthesis”

and has fulfilled all other requirements
for the degree in the Department of
Ceramic Engineering.

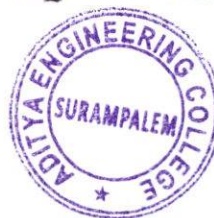
Given this day, under the seal of the Institute
at Rourkela in the Republic of India,
the 13th Day of August 2022.


PRINCIPAL

ADITYA ENGINEERING COLLEGE
SURAMPALEM - 533 437




Registrar




Director