



ANDHRA UNIVERSITY

ఆంధ్ర విశ్వకళా పరిషత్

0037982

Accredited by NAAC with A++ Grade with Score : 3.74 : ISO 9001 : 2015 Certified

PROVISIONAL CERTIFICATE

DISPOSAL NO. T(2)/9668/2022/P.T.

REGISTER NUMBER: _____

This is to Certify that Sri / Smt./ Kum. **SRINIVAS MAGANTI**
has Qualified himself/herself for the Award of Doctor of
Philosophy Degree by research for the Thesis submitted by him / her
entitled **ANALYSIS OF CLUSTERING WITH SECURE ROUTING PROTOCOL**
USING META HEURISTIC OPTIMIZATION TECHNIQUES TO IMPROVE ENERGY
EFFICIENCY IN MOBILE ADHOC NETWORKS *and that he/she has fulfilled*
all that are necessary for the formal presentation of the Degree of
Doctor of Philosophy in **INSTRUMENT TECHNOLOGY** *in the year 2024.*

Read :

Examined

Supdt.