



As the Registrar of the University of Madras, I have the honor to certify that the candidate named above has been duly admitted to the degree of Doctor of Philosophy in Applied Mathematics in the month of June, 2022.

# GANDHI INSTITUTE OF TECHNOLOGY AND MANAGEMENT



**GITAM**  
**(DEEMED TO BE UNIVERSITY)**  
(Estd. u/s 3 of the UGC Act, 1956)

## SCHOOL OF SCIENCE

This is to certify that

**Maddi Kavitha**

has been duly admitted to the degree

of

**Doctor of Philosophy**

in

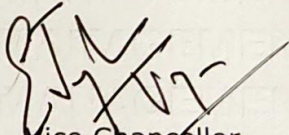
**Applied Mathematics**

of this University, he/she having been declared as Qualified

to receive the degree in **June, 2022**

Given under the seal of GITAM



  
Vice Chancellor