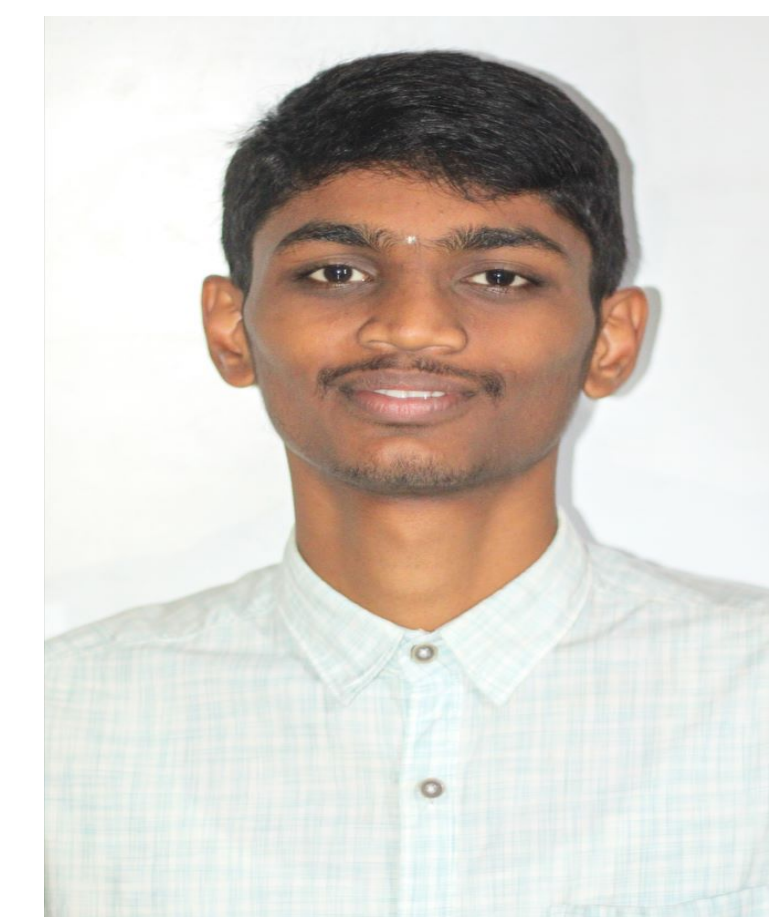




NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
GURUMURTHY V HEGDE
for successfully completing the course

Phase-Locked Loops

with a consolidated score of **47** %

Online Assignments	14.75/25	Proctored Exam	31.75/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: **53**

Devendra Jalihal

Prof. Devendra Jalihal

Chairperson,

Centre for Outreach and Digital Education, IITM

Jul-Oct 2023

(12 week course)

Prof. Andrew Thangaraj

Prof. Andrew Thangaraj

NPTEL, Coordinator

IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL23EE83S534600502

To verify the certificate



No. of credits recommended: 3 or 4