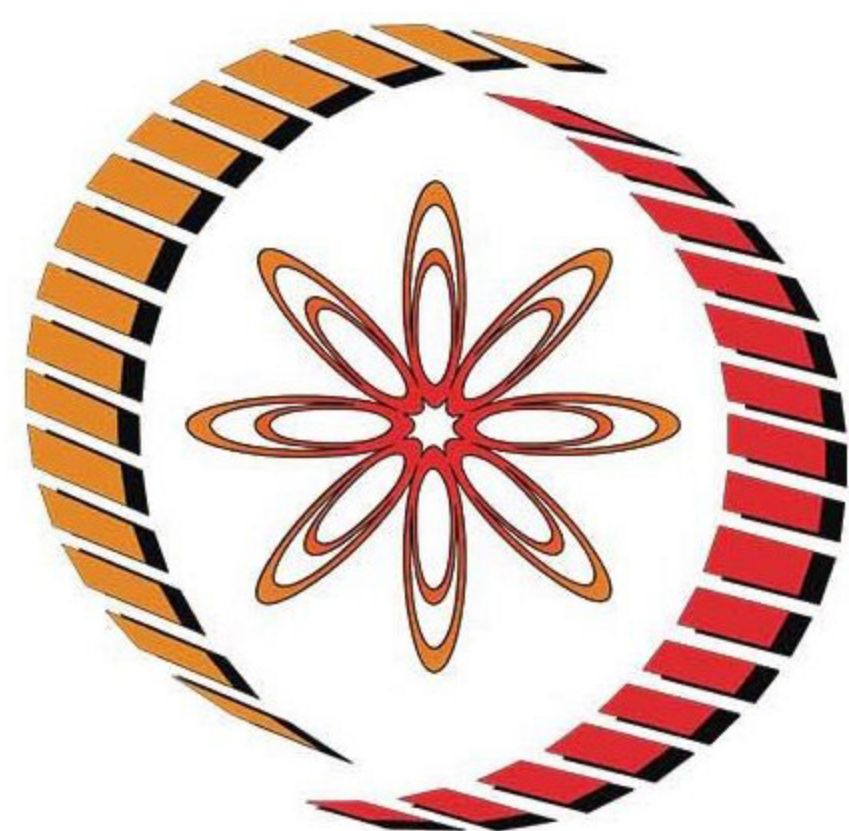




NPTEL Online Certification

(Funded by the MoE, Govt. of India)



This certificate is awarded to
KUMAIL KHOZEMA KHURRAM
for successfully completing the course

Phase-Locked Loops

with a consolidated score of **48** %

Online Assignments	16.35/25	Proctored Exam	31.75/75
--------------------	----------	----------------	----------

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

Prof. Devendra Jaliha

Chairperson,
Centre for Outreach and Digital Education, IITM

Jul-Oct 2023

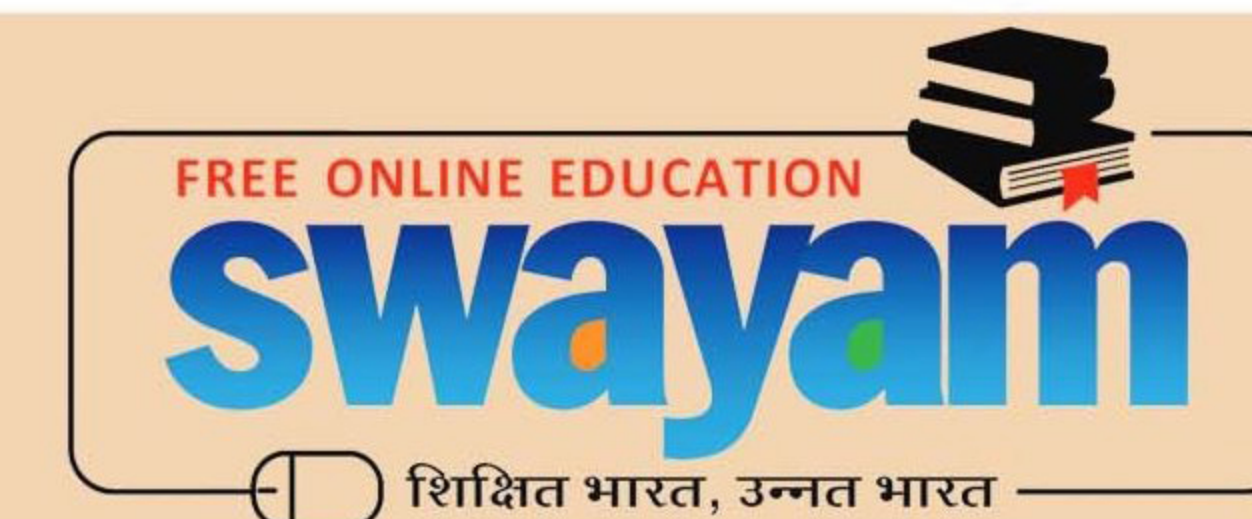
(12 week course)

Prof. Andrew Thangaraj

NPTEL, Coordinator
IIT Madras



Indian Institute of Technology Madras



Roll No: NPTEL23EE83S532301642

To verify the certificate



No. of credits recommended: 3 or 4