

NPTEL Online Certification



(Funded by the MoE, Govt. of India)

This certificate is awarded to

MOSTAFA MAHER EL HAWARY

for successfully completing the course

Phase-Locked Loops

with a consolidated score of

Online Assignments | 21.28/25 | Proctored Exam

33.75/75

Total number of candidates certified in this course: 53

Prof. Devendra Jalihal

Devendra Jalihal

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



FREE ONLINE EDUCATION