

# **COLLEGE OF ENGINEERING KIDANGOOR**

**Engineering College under Co-Operative Academy of Professional Education (CAPE)  
Established by the Govt. of Kerala**

## **SEMINAR REPORT**

**ON**

**FINGERPRINT LIVENESS DETECTION USING CONVOLUTIONAL  
NEURAL NETWORK AND FINGERPRINT IMAGE ENHANCEMENT**

**SUBMITTED BY**

**MRUDHULA M NAIR**

*In partial fulfillment of the award of the Degree of  
Bachelor of Technology in  
Computer Science and Engineering*



**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**COLLEGE OF ENGINEERING KIDANGOOR**

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