

# DEPARTMENT OF MECHATRONICS ENGINEERING

## KONGU ENGINEERING COLLEGE

PERUNDURAI ERODE – 638060

APRIL 2021

### BONAFIDE CERTIFICATE

This is to certify that the Project report entitled **Influence of bio-lubricants on tribological study of zirconia and zirconia toughened alumina against Ti6Al4V for hip joint replacement** is the bonafide record of project work done by **ARAVINTHAN.R (17MTR007), KAVIN.V.E (17MTR050), MURUGAVEL.N (17MTL123)**, in partial fulfillment of the requirements for the award of the Degree of Bachelor of Engineering in Mechatronics of Anna university, Chennai during the year 2017– 2021.

SIGNATURE

**Mr.R.NITHYAPRAKASH M.E.,**

Supervisor,

Mechatronics Engineering,

Kongu Engineering College,

Perundurai - 638060.

SIGNATURE

**Dr.B.MEENAKSHI PRIYA M.E., Ph.D.,**

Head of the Department,

Mechatronics Engineering,

Kongu Engineering College,

Perundurai – 638060.

Submitted for the end semester viva voce examination held on 21/04/2021

INTERNAL EXAMINER

EXTERNAL EXAMINER