



**ATMIYA
UNIVERSITY**

**A NOVEL FAULT-TOLERANT STRUCTURE FOR A
SINGLE-PHASE SEVEN-LEVEL CASCADED H-
BRIDGE MULTILEVEL INVERTER**

A Thesis

Submitted to the
Atmiya University

For the Degree of

DOCTOR OF PHILOSOPHY

in

ENGINEERING & TECHNOLOGY

by

Patel Monika Devrajbhai

Enrolment No. 191153002

Under the Guidance of

Dr. Dharmesh J. Pandya

Department of Electrical Engineering

ATMIYA UNIVERSITY

Yogidham Gurukul, Kalawad Road,

Rajkot-360005, Gujarat (India)

December, 2023