

**Electrochemical modeling and validation of
high-κ dielectric and nanomaterial based
enzyme field effect transistors (ENFETs) for
biomolecule detection**

**A thesis submitted in partial fulfillment of the requirements
for award of the degree of Doctor of Philosophy**

PURNIMA KUMARI SHARMA

Registration Number: TZ167095 of 2016



Department of Electronics & Communication Engineering

School of Engineering, Tezpur University

Tezpur–784028, Assam, India

August, 2018