

**Hardware based Field Type E-Nose for Tea Flavour
Estimation and Direct Interface Circuit for Multisensory
Environment**

**A thesis submitted in partial fulfillment of the
Requirements for the degree of**

Doctor of Philosophy

Lachit Dutta

Registration No: TZ121212 of 2012



Department of Electronics and Communication Engineering

School of Engineering

Tezpur University

Tezpur-784028

Assam, India

August, 2018

*This thesis is dedicated to my beloved deti (father)
Mr. Lohit Dutta, my mother Mrs. Mridula Dutta
and my sister Miss Debajani Dutta*