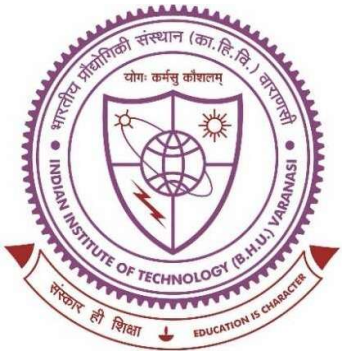
Surface Engineered Opto-electrochemical Sensing Platforms for Medical Applications



Thesis submitted in partial fulfilment

for the Award of Degree

Doctor of Philosophy

by

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Dedicated to my parents

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CERTIFICATE

It is certified that the work contained in the thesis entitled "***Surface Engineered Opto-electrochemical Sensing Platforms for Medical Applications***" by "***Divya***" has been carried out under my supervision and this work has not been submitted elsewhere for a degree.

It is further certified that the student has fulfilled all the requirements of comprehensive, candidacy, and SOTA for the award of Ph.D. degree.

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DECLARATION BY THE CANDIDATE

I, **Divya**, certify that the work embodied in this Ph.D. thesis is my own bonafide work and carried out by me under the supervision of **Assoc. Prof. Pranjal Chandra** from **Dec 2020 to June 2025** at the School of Biochemical Engineering, Indian Institute of Technology (BHU) Varanasi. The matter embodied in this Ph.D. thesis has not been submitted for the award of any other degree/diploma. I declare that I have faithfully acknowledged and given credit to the research workers wherever their works have been cited in my work in this thesis. I further declare that, I have not willfully copied any other's work, paragraphs, text, data, results, etc. reported in the journals, books, magazincs, reports, dissertations, thesis, etc., or available at websites and have not included them in this Ph.D. thesis and have not cited as my own work.

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CERTIFICATE BY THE SUPERVISOR AND HEAD OF THE DEPARTMENT

It is certified that the above statement made by the student is correct to the best of our knowledge.

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Divya

Table of Contents

Contents **Page No.**

List of Figures

List of Tables