

# **A STUDY OF MATRICES ON SEMIGRAPHS**

**A Thesis  
submitted in partial fulfilment of  
the requirement for the completion of the degree  
Doctor of Philosophy in Mathematics**

**Submitted by**

**ARDHENDU KUMAR NANDI  
Enrolment No: PHDMAT 19004  
Registration No: FINAL.MAT00291 of 2019-2020**



**Supervised by**

**Dr. Surajit Kumar Nath  
Department of Mathematical Sciences  
Bodoland University, Kokrajhar**

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**Department of Mathematical Sciences  
Under Faculty of Science & Technology  
Bodoland University  
Kokrajhar, Assam-783370**

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