

**NONUNIFORM PADÉ BASED COMPACT SCHEMES
FOR FLUID AND HEAT FLOW PROBLEMS:
DEVELOPMENT AND APPLICATION**

A THESIS SUBMITTED IN PARTIAL FULFILMENT OF THE
REQUIREMENTS FOR AWARD OF THE DEGREE OF
DOCTOR OF PHILOSOPHY

BY

DHARMARAJ DEKA

Roll No. MSP17104

(Reg. No. TZ156117)



DEPARTMENT OF MATHEMATICAL SCIENCES
TEZPUR UNIVERSITY, NAPAAM 784028, ASSAM, INDIA

NOVEMBER, 2024