

**CONTRIBUTIONS TO OSCILLATION AND NONOSCILLATION
OF NONLINEAR DELAY AND NEUTRAL
TYPE DIFFERENCE EQUATIONS**

Thesis submitted to
PERIYAR UNIVERSITY, SALEM
for the award of the Degree of

**DOCTOR OF PHILOSOPHY
IN MATHEMATICS**

By
K. ALAGESAN

Under the guidance of
Major Dr. R.ARUL



**DEPARTMENT OF MATHEMATICS
KANDASWAMI KANDAR'S COLLEGE
VELUR (NAMAKKAL) – 638 182
TAMILNADU, INDIA**

OCTOBER - 2015