



PEOPLE'S DEMOCRATIC REPUBLIC OF ALGERIA

Ministry of Higher Education and Scientific Research

University of Blida 1

Faculty of Science

Department of Mathematics

THESIS

Submitted in fulfillment of the requirements for the degree of

Doctorate

Speciality: Mathematics

Option: Functional Analysis and Differential Equations

Presented by:

Amira Rouaghi

Thesis Title:

**Study of a Superlinear Ordinary Differential Equation with
Dirichlet Boundary Conditions**

**Thesis Supervisor
Mr. Mohamed Rouaki**

Defended before the jury composed of:

- Mr. Z. Dahmani, Professor, University of Blida 1 – President
- Mr. A. Aït Mokhtar, Professor, ENS Kouba – Examiner
- Mrs. L. Betrouni, MCA, University of Blida 1 – Examiner
- Mr. T. Moussaoui, Professor, ENS Kouba – Examiner
- Mr. M. A. Talbi Mohamed, MCA, University of Blida 1 – Examiner
- Mr. M. Rouaki, MCA, University of Blida 1 – Supervisor

Thesis defense date : **15/02/ 2026 at 4:00 PM, Pavilion 8**

Academic Year: **2025–2026**