



## *Ph.D. programme in Mathematics and Computer Science*

**Title:** Lectures in Nonlinear Analysis and Differential Equations

**General Information:** The course is intended for doctoral students and young researchers interested in Nonlinear Analysis and Differential Equations.

The classes will be given in Aula MT11, Department of Mathematics and Computer Science, University of Calabria. During the same period our University will host three talks given by some participants, this are included here for completeness.

### **Course Lecturers:**

- **Daria Bugajewska**, Adam Mickiewicz University, Poland  
*Nonlinear operators in the spaces of functions of bounded variation of various types and their applications.*
- **Petru Jebelean**, West University of Timisoara, Romania  
*Singular  $\phi$  - Laplacians - fixed points and variational methods.*
- **Piotr Kasprzak**, Adam Mickiewicz University, Poland  
*Eigenvalues of nonlinear operators with applications to integral and differential equations.*

### **Guest Speakers:**

- **Pasquale Candito**, Mediterranean University of Reggio Calabria, Italy  
*A coincidence point approach in solving nonlinear problems.*
- **Roberto Livrea**, Mediterranean University of Reggio Calabria, Italy  
*Existence and multiplicity for second order dynamical systems.*
- **Feliz Minhós**, University of Evora, Portugal  
*Solvability of third order nonlinear coupled systems.*

| Course dates     | Time                       | Room     |
|------------------|----------------------------|----------|
| MONDAY 23 MAY    | 09:00-13:00                | MT11-30B |
| TUESDAY 24 MAY   | 09:00-13:00                | MT11-30B |
| WEDNESDAY 25 MAY | 09:00-13:00                | MT11-30B |
| THURSDAY 26 MAY  | 09:00-13:00<br>15:00-18:00 | MT11-30B |
| FRIDAY 27 MAY    | 09:00-13:00                | MT11-30B |