

The thesis :

- The normal duration of a doctoral thesis is three (03) consecutive academic years. It culminates in the defense of a thesis. The doctoral student must also validate a specialization course (knowledge reinforcement), research methodology courses and Initiation à la pédagogie, ICT and English language skills.
- The thesis must be accompanied by scientific work (communications, publications, patents).

The objectives of this doctoral training program:

The aim of the doctoral school in mathematics is to provide training in and through research, with a view to enhancing knowledge and high-level scientific skills in mathematics. The aim of this training program is to take advantage of the laboratories' in-house skills in terms of supervision to train young doctoral students from the University of Jijel, or from other universities, who will be able to maintain the mathematics department's status as a center of excellence. The aim of this training program is to ensure top-quality teaching and scientific supervision, in particular through the organization of all kinds of activities (courses, lectures, workshops, seminars, in-depth seminars, scientific and doctoral meetings, internships, etc.) to develop their scientific and technical skills.

The second objective of this training program is to develop partnerships, scientific cooperation, exchanges and mobility in terms of scientific research, by facilitating the mobility of doctoral students and researchers, as well as access to the specialized documentation available in each establishment. The program also encourages joint participation in bilateral and multilateral research and development projects and programs between partner institutions.

Thanks to the diversity of the research topics offered in this program (numerical analysis, bio-statistics, population dynamics, econometrics, optimization, dynamical systems, etc.), it is part of the consolidation and reinforcement of links with strategic and priority areas, both technological and socio-economic, in the field of mathematical modeling and applications. the program is designed to consolidate and strengthen links with strategic and priority technological and socio-economic areas in both mathematical modeling and mathematical applications. Although research in mathematics is essentially fundamental, the program offers a range of gateways to other sciences, both upstream (modeling) and downstream (applications).