



PH.D. IN SYSTEMS ENGINEERING AND COMPUTER SCIENCES

8 semesters · SNIES Code: 102156
Res. 12309 of 2019 (7 years)
Metropolitan area of Barranquilla

General Objective

To train qualified researchers at doctoral level in the areas of knowledge of computer science, especially in the disciplines of computer science, especially in the disciplines of software engineering and computer networks (Computer Engineering). Software engineering and computer networks (Computer Engineering). With a high level of high level of knowledge, scientific rigor and with important levels of experimentation with a very competitive profile at the international level, capable of addressing processes of research, development and innovation of high impact for the impact for the Colombian Caribbean Region.

Occupational profile

Optimization and improvement of products, services and processes based on experimental techniques from computational technology environments. Characterization and analysis of phenomena using fundamental principles of systems engineering. Management and formulation of research and technological development projects. Manage R+D+i teams with standardized processes of software engineering, systems engineering and computer science.

Duration

8 semesters, 120 credits.

Title offered

Doctor of Philosophy in Systems Engineering and Computer Science.

Modality of study

On Campus (classes during the week, usually programmed in the afternoon hours)



www.uninorte.edu.co

CURRICULUM

Core Courses

*Approve all

Credits

- Advanced Discrete Mathematics.....4
- Algorithms.....4
- Theory of Optimization.....4

Mathematics Concentration

*Approve 8 credits of the offer

Elective Courses

*Approve 24 credits of the offer

Research Training Courses

*Approve 8 credits

Qualifying Examination

*Passing the exam

International Internship

*Approve 8 credits

*Minimum duration of 3 months

*Publish at least one international paper

Doctoral Thesis

*Approve 58 credits

Doctoral Thesis Defense

*Approve 2 credits

*Students may choose their courses according to the academic offer of each semester. The maximum number of credits per semester is 14. Possibility of courses offered in English.

Enrollment Steps

Learn the steps and sign up by going to:
www.uninorte.edu.co/nuevoingreso

Financing

We have multiple alternatives to finance the payment of tuition in the short, medium and long term. Learn more at:
www.uninorte.edu.co/web/apoyo-financiero/posgrados

More information
here



More information

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