

CONDITIONS OF ADMISSION

The selection will be made exclusively based on the submitted documents which must include:

- ✎ **A handwritten request addressed to the director of the IMSP, specifying the chosen option ;**
- ✎ **A certified copy of the A-level degree or equivalent (+ certificate of authenticity file for foreign diplomas) ;**
- ✎ **A certified copy of the A-level degree or equivalent degree ;**
- ✎ **A certified copy of the transcripts from the A-level to the Bachelor degree ;**
- ✎ **A Curriculum Vitae ;**
- ✎ **A certified copy of the birth ;**
- ✎ **2 x ID photos (Passport format size) ;**
- ✎ **2 x letters of recommendation ;**
- ✎ **A receipt of payment for the application review fees;**
- ✎ **A file folder with a strap ;**

The application review is **23 €**, non-refundable. The application must be submitted to the secretariat of the Institute of Mathematics and Physics in Dangbo (Benin).
(secretariat.particulier@imsp-uac.org)

TUITION FEES

- Registration:	83 €
- Training:	457 €
- Laboratory and internship:	152 €
TOTAL :	689 €

TRAINING AND RESEARCH PARTNER STRUCTURES :

FAST University of Abomey-Calavi, ENS Libreville (Gabon), University Cheikh Anta Diop (Senegal), University Gaston berger (Senegal), University Félix Houphouet Boigny (Ivory Coast), University of Cocody (Ivory Coast), University Pierre Marie Curie (France), University of Lille, University of Ottawa (Canada), University of Michigan (USA).

Coordinator :

Prof. Carlos Ogouyandjou
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For more information

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MASTER OF RESEARCH IN STATISTICS- PROBABILITY

WHAT IS IT ABOUT?

Probability theory and statistics are fields that straddle pure and applied mathematics. The Institute of Mathematics and Physics of the University of Abomey-Calavi provides training in four semesters for high-level specialists in statistics and probability and awards a research Master's degree in Statistics-Probabilities.

This training offers basic courses as well as a wide range of specialized courses on recent theoretical, practical and numerical methods and tools in statistics and probability.

TRAINING OBJECTIVES

At the end of the training, which also offers an introduction to research, the graduates will master probabilistic and statistical methods for solving socio-economic problems. They will also be competent to meet the challenges of scientific research related to statistics and probability with their ever-increasing number of applications.

ADMISSIBLE PROFILE

The Master of research in Statistics and Probability program is open to students from Benin and abroad who hold a Bachelor degree in fundamental mathematics or a diploma recognized as equivalent.

OPPORTUNITIES

The graduates of this course are intended to pursue a thesis in statistics or probability, to practice in higher education and scientific research. They can also directly integrate research laboratories.

TRAINING STRUCTURE

The teaching units are distributed as follows:

SEMESTER 1 : Algebra, Topology, Functional Analysis, Convex Analysis, Hilbert Analysis, Probability Theory, English.

SEMESTER 2 : Linear Models, Mathematical Statistics, Random Phenomenon Modelling, Computing and Simulation tools, Tutored Projects.

SEMESTER 3 : Data Analysis, Time Series, Monte Carlo Methods, Stochastic Calculus, Survey Theory and Practice, Statistical Learning.

SEMESTER 4 : Non-parametric statistics, Computational statistics, Econometrics of qualitative variables, Writing and defense of the thesis.

Success in this Master's programme is conditional on a minimum grade of 12/20 in all teaching units.

