

Call for Applications for Master of Science in Applied Mathematics

The University of Rwanda, College of Science and Technology, wishes to inform interested candidates that the 4th intake of Master of Science in Applied Mathematics for the academic year 2017-2018, is starting on 15th January, 2018.

The central aim of the program is to train undergraduate candidates in mathematics and physics to Master level in applied mathematics with the experience needed to work as mathematicians in universities and industries.

It is a four semester (two years) fee-paying programme that is taught in the Department of Mathematics, School of Science.

Program details

The course will be offered under a modular approach. The taught MSc program is composed of a series of lectures, seminars, course works and an individual dissertation. Candidates for the MSc Program are required to study a number of compulsory modules having a total of 160 credits during semester one, two and three. The last semester is for dissertation.

The content of the program is the following

COMMON MODULES:

1. Applied Functional Analysis and Finite Elements (20 credits)
2. Inverse Problems and Applications (10 credits)
3. Optimization and Applications (20 credits)
4. Stochastic Processes (10 credits)
5. Measure Theory and Probability (20 credits)
6. Fourier and Wavelets Analysis (10 credits)
7. Numerical Linear Algebra and Scientific Programming (10 credits)
8. Thesis (80 credits)

Optional Modules:

Option A: Mathematical Modeling & Scientific Computing

1. Modelling with Differential Equations and Computing (20 credits)
2. Lie Groups and Application to Wavelets Analysis (20 credits)
3. Computational Fluid Mechanics (10 credits)
4. Research methodology (10 credits)

Option B: Statistical Modeling & Actuarial Sciences

1. Sampling Techniques, Experimental Design and Statistical Models (20 credits)
2. Mathematics of Insurance and Finance (20 credits)
3. Mathematical Biology (10 credits)
4. Research methodology (10 credits)

Admission criteria

The minimum entrance requirements is Bachelor Degree in mathematics or Physics with Second Class Honors, lower Division

Fees payment

The tuition fee payable is 3,000,000 Frw for 2 years.

Other fees to be paid by application and registration, please check the link

Application Form

Application forms can be downloaded from the website www.cst.ur.ac.rw

Submission:

Completed application forms should be submitted to the Directorate of Research and Postgraduate Studies at the College of Science and Technology with a copy to the Department of Mathematics

Deadline: 15th December, 2017

For more information on the programme, please contact

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Done at Nyarugenge, 24th July 2017

FOR

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