UNIVERSIDADE FEDERAL DE GOIÁS
INSTITUTO DE MATEMÁTICA E ESTATÍSTICA
Pós-Graduação em Matemática

Information about Ph.d course

1. Application period: From September, 01 to October, 10 for admission in March.

2. Selection Schedule
   - Application period: 09/01/2014 through 10/10/2014.
   - Announcement of confirmed applications: 10/14/2014.
   - Partial decision – Step 1 results: 10/17/2014
   - Exame Extra- Muros – Step 2: 10/24/2014
   - Results of Step 2: 12/12/2014
   - Summer school: 12/01/15 through 13/02/15
   - English Language Exam – Step 3: 02/04/2015
   - Final selection result: 02/27/2014
   - Enrollment and beginning of the classes: to be announced.

3. On vacancies and selection process
   - there are eight (08) vacancies to be filled in the current notice;
   - the Committee of Selection will realize the selection process and the final result will be approved by CPG
   - the selection process comprises three steps:
   - Step 1: applicants are ranked based on an analysis of the provided documents. Classificatory;
   - Step 2: exam named Exame Extra Muros 2015, organized jointly by UFRJ, USP/São Carlos and UFAL. All information pertaining to this exam may be found below in attachement I. Classificatory and eliminatory;
   - Step 3: Foreign Language Exam (english).
   - After Step1, the Committee of Selection issues a partial verdict: accepted or recommended to realize the step 2;
   - After Step 2, the Committee of Selection issues a partial verdict: accepted or not accepted;
   - After Step 2 and 3, the CPG issues a final decision.

4. Attachment I, Edital 03/2014 Information concerning the Exame Extra-Muros 2015

   In order to participate in the exam Exame Extra-Muros 2015, please visit https://docs.google.com/spreadsh and fill out all requested data.

   EXAME EXTRA-MUROS'S content FOR PH.D 2015: Compact metric spaces . Convexity. Continuity. Diferenciability. Riemann-Stieljes Integral. Sequences and series of functions. Stone-Weierstrass Theorem. Functions of several variables. Differential applications between euclidean spaces. Linear transformation derivative. Gradient. Chain rule. Path in Rn. Cn Applications : Taylor's Formula. Inverse Application Theorem. Local Forms of immersions and submersions.

Implicit Functions. Rank Theorem. Surfaces. Lagrange Multipliers. Multiple Integration. Stokes's Theorem.

EXAME EXTRA-MUROS CONTENTS FOR PH.D 2015:

Referências

[1] RUDIN, W. - Principles of Mathematical Analysis, International Series in Pure and Applied Mathematics, Mcgraw-Hill, 1976.

[2] LIMA, E. L. - Análise no Espaço $\mathbb{R}^n$. Coleção Matemática Universitária, Rio de Janeiro, IMPA, 2004.

[3] LIMA, E. L. - Curso de Análise, vols. 1 e 2 Rio de Janeiro, IMPA, Projeto Euclides, 1989.

5. More information: please send e-mail to mtuyako@gmail.com