

**GeoGebra Institute Application  
to establish the  
GeoGebra Institute of Niger**

22-08-2011, Niamey

The International GeoGebra Institute (IGI, <http://www.geogebra.org/igi>) is a non-profit organization that works together with independent regionally-based local *GeoGebra Institutes*. These local organizations need to apply to the International GeoGebra Institute in order to become an officially accredited GeoGebra Institute. Please submit this application form directly to IGI ([igi@geogebra.org](mailto:igi@geogebra.org)).

## 1 Acceptance of IGI Vision, Goals and Procedures

The applying GeoGebra Institute declares with this application that it accepts and shares the vision, goals, non-commercial nature, licensing and following procedures with the International GeoGebra Institute and its other GeoGebra Institutes.

### 1.1 Vision of the International GeoGebra Institute

The International GeoGebra Institute (IGI) provides free dynamic mathematics software and shares expertise in training, support and the development of materials for all students and teachers to improve mathematics, science and technology education world-wide. It nurtures and promotes collaboration between practitioners and researchers, seeking to establish self-sustaining user communities.

### 1.2 Mission of IGI and GeoGebra Institutes

The International GeoGebra Institute and its local GeoGebra Institutes share the following three goals:

1. **Training and Support:** To coordinate and provide professional development opportunities and support for both pre-service and in-service teachers.
2. **Development and Sharing:** To develop and share workshop resources and classroom materials, and to continually improve and extend the dynamic mathematics software GeoGebra.
3. **Research and Collaboration:** To conduct and support GeoGebra-related research which focuses on the teaching and learning of mathematics in order to inform and improve training and development activities, and to promote collaboration between IGI and local GeoGebra Institutes and between international colleagues.

### 1.3 Non-Commercial Nature

The applying GeoGebra Institute declares that it is (part of) a non-profit organization (e.g., university, teacher education college) with only non-commercial interests. Normally, services offered by a GeoGebra institute should be free of charge for teachers and students. If there are revenues created in connection with GeoGebra (e.g., books, online materials, workshops), it is expected that this money will be used to support and sustain the goals and activities of IGI or GeoGebra Institutes.

### 1.4 Licensing

The applying GeoGebra Institute declares that it will share all developed materials under a Creative Commons Attribution, Non-commercial, Share Alike license (see <http://creativecommons.org/licenses/by-nc-sa/3.0/>) or a similar license and that it will respect the license of the GeoGebra software itself (see <http://www.geogebra.org/download/license.txt>). The spirit of IGI and its GeoGebra Institutes is to share materials and be open for collaboration with everyone.

## 1.5 Annual Activity Report

The applying GeoGebra Institute states that it will submit an annual report regarding its activities to the IGI ([igi@geogebra.org](mailto:igi@geogebra.org)). The common and stated IGI goals can be used to structure this annual report.

The International GeoGebra Institute has the right to withdraw the accreditation of a GeoGebra Institute if it is in violation of any of the aforementioned common IGI goals.

## 2 Structure and Activities of applying GeoGebra Institute

### 2.1 Structure of GeoGebra Institute

**2.1.1 Name:** The official name of GeoGebra Institute of Niger is  
*GeoGebra Institute of Niger (GI-Niger)*

**2.1.2 Affiliation:**

- *GeoGebra Institute of Niger (GI-Niger)* will be hosted by IREM (Institut de Recherches sur l'Enseignement des Mathématiques) in Abdou Moumouni University of Niamey (<http://uam.refer.ne>). IREM is an institute which roles are mathematics teachers training, didactic materials production, research on mathematics teaching, the organization of workshops, and more generally mathematics promotion. The GI-Niger will interest to teachers training, promoting research and development of materials on GeoGebra, through members in national universities of Niger and the secondary inspections.

- The GeoGebra Institute of Niger is the result of the great support from the University of Cantabria through a project of cooperation, outstanding training to high school teachers in GeoGebra.

**2.1.3 Address:** The official address of the Institut de GeoGebra du Niger is

GI-Niger  
Institut de Recherche sur l'Enseignement des Mathématiques  
Université Abdou Moumouni de Niamey  
Rive droite  
B.P 10896 , Niamey NIGER

### 2.2 People of GeoGebra Institute

Prof Amidou Morou, [moorou\\_a@yahoo.fr](mailto:moorou_a@yahoo.fr)

Professor of mathematics in Abdou Moumouni University of Niamey, with several mathematical papers, a long experience in upper secondary school and teacher training.

He has a mathematics thesis in computer algebra, prepared in University of Sfax (Tunisia) and Abdou Moumouni University of Niamey. He has participated to the sessions of GeoGebra for mathematics teacher's of secondary of Niamey this year. He already has an large experience in the utilization of GeoGebra for graphics in statistics and functions representation for mathematics annals and booklets and in the teaching and the use of several computer algebra software. He is the secretary of the national federation of mathematics of Niger (ANJM).

He will be a trainer of the Geogebra Institute of Niger.

Prof Rabiou Ousman; rousman@yahoo.com

Professor of didactics of mathematics in Abdou Moumouni University of Niamey, with a large production of papers in mathematics education and using technology in school. He is the director of IREM. He was the coordinator of the " the project for the dynamisation of education in Niger". He has an large experience in the utilization of GeoGebra for graphics in statistics and functions representation for mathematics annals and booklets course and he followed up the sessions of GeoGebra for mathematics teachers of this year. He was the first president of ANJM.

He will assure the collaboration with IREM, develop materials and do research on GeoGebra, He will also assure the collaboration of GI-Niger with the Ministry of national education.

Prof Otto Adamou, otto\_adamou@yahoo.com

Professor of mathematics in Abdou Moumouni University of Niamey, with several mathematical papers and a long experience in upper secondary school, and teacher training. He has a mathematics thesis in real algebraic geometry, prepared in University of Rennes (French) and Abdou Moumouni University of Niamey. He has participated to the sessions of GeoGebra for mathematics teachers of secondary of Niamey this year. He also has an large experience in the utilization of GeoGebra for graphics in statistics and functions representation for mathematics annals and booklets course.

He will assure the collaboration of IREM to the initiatives of GI-Niger (Geogebra Institute of Niger).

He will give workshops, develop materials and do research on Geogebra.

Prof Seydou Moussa, seydoumoussa@yahoo.fr

Professor of mathematics in University of Maradi, with several mathematical papers and experience in upper secondary school. He has a mathematics thesis in real algebraic geometry, prepared in University of Rennes (French) and Abdou Moumouni University of Niamey. He is actually the chef of departement of mathematics in University of Maradi. He has an large experience in the utilization of GeoGebra for graphics in statistics and functions representation for mathematics annals and booklets.

He will assure the collaboration of GI –Niger to the national pedagogic inspections and Maradi University.

Prof Moussa Tessa Ousmane, musatesa@refer.ne

Professor of mathematics, with a large production of papers in mathematics and extended experience of education and use of technology in school.

He has a thesis of Algebra of University of Rennes and a thesis in preparation in the use of new technologies in teaching. He organised several formations in data processing and the use of moodle and several computer algebra software. He is actually the national director of research in Niger. He has the habit to use GeoGebra to produce graphics for booklet of course and he is associated to the sessions of GeoGebra for mathematics teachers.

He will give workshops, develop materials and do research on Geogebra.

Ibrahim Adamou, Ibrahim.adamou@unican.es

Prepares a thesis of mathematics in University of Cantabria. He participated to the GeoGebra formation for mathematics teachers of Niamey. He assured the collaboration of GI-Niger and the GeoGebra institute of Cantabria of Spain. He will assure the collaboration of GI-Niger to the Cantabria Geogebra institute.

## **2.3 Activities and Goals of GeoGebra Institute**

### **2.3.1 Training and support**

We have already organized some sessions of Geogebra with secondary mathematics teachers with respect to the official curricula of mathematics in Niger under a project of cooperation with University of Cantabria. We will extend training all over the country through workshops and with dedicated platform of e-learning. We will wish to build a regional network of Certified GeoGebra experts and trainers (level 2-3). We will use the structure of IREM of Abdou Moumouni University.

### **2.3.2 Development and sharing**

The GI-Niger will interest to the development and the sharing of materials. We will particularly develop materials with respect to the national curricula in Niger. The

materials will be shared through a dedicated e-learning platform. The members of the platform can be teachers of all regions of Niger and other countries particular those with the same curricula (In west African francophone countries).

Several members of GI-Niger are members of the associations grouped in the Tarbiya-Tatali network, in France and in Niger. The Tarbiyya-Tatali website [www.trabiyya-tatali.org](http://www.trabiyya-tatali.org) will report in french, haoussa and spanish on the activities of the GI-Niger.

### 2.3.3 Research and collaboration

The GeoGebra Institute of Niger will benefit of the collaboration of national ministry of education, university of Maradi and Abdou Moumouni University of Niamey through IREM.

We have already an experience in GeoGebra with secondary schools of Niamey, through some teachers and national pedagogic inspector. We can also benefit of the experience and the collaboration of a existing structure of GeoGebra of University of Cantabria in Spain and the UFR of mathematics of Rennes 1 University through Michel Coste and Marie-Roy Françoise who are full Professor of mathematics, with a large production of papers in mathematics and an extended experience of education and use of technology in school.

## 2.4 Certification (Optional)

If your GeoGebra Institute would like to certify local GeoGebra users, experts, and trainers, please describe the requirements and procedures of this certification process. Please make sure to read the GeoGebra Certification Guidelines document (see <http://www.geogebra.org/igi>) before you fill in this section.

### 3 Signatures

The chair person of the applying GeoGebra Institute and a representative of its hosting institution (e.g. university, teacher education college) declare with their signatures that all information in this application is correct to their best knowledge and that they support the establishment of a GeoGebra Institute at their institution as described in this application.

#### Chair person of your GeoGebra Institute

AMIDOU Morou  
Professor of mathematics, full employee (e.g. part-time, full-time employee)  
IREM-Abdou Moumouni University of Niamey  
BP 10896, Niamey-Niger  
Moorou\_a@yahoo.fr  
0022796089191

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

#### Representative of hosting institution of your GeoGebra Institute

RABIOU Ousman  
Director (e.g. department chair, dean)  
IREM-Abdou Moumouni Universty  
BP 10896, Niamey-Niger  
rousman@yahoo.com  
00227315772

Signature: \_\_\_\_\_

Date: \_\_\_\_\_

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#### Application approved by

Markus Hohenwarter ([markus@geogebra.org](mailto:markus@geogebra.org))  
President of the International GeoGebra Institute (<http://www.geogebra.org/igi/>)

Signature: \_\_\_\_\_

Date: \_\_\_\_\_