

## Sakha Ikamva - a Zenex Foundation sponsored project

The Zenex Foundation Board approved a grant of R25, 8 million at the beginning of 2016 to implement a five year programme (2016 to 2020) of support to 10 selected schools in the Nelson Mandela Bay metropole (Port Elizabeth and Uitenhage).

The project was formally launched on 18 October 2016 at the Beach Hotel, Summerstrand, and Port Elizabeth, where the project name "Sakha Ikamva" was announced.

The primary goal of the project is to increase the number of schools in the Eastern Cape that offer quality Mathematics, Physical Sciences and English teaching to previously disadvantaged Grade 10 to 12 learners. The secondary goal is to increase the pool of learners in the Eastern Cape that obtain quality passes and enter tertiary studies in the fields of Mathematics and the Sciences.

The project objectives are to improve the performance in Mathematics, Physical Sciences and English of the selected schools through providing support through the provision of:

- Targeted teacher training focusing on pedagogical classroom practice and theories of learning;
- Support for grade 10 to 12 learners focusing on extra academic tuition, camps, mentoring, blended learning support through innovative models of intervention highlighting the importance of technology in preparing learners for the 21st century and tertiary access support for learners;
- School Leadership support for curriculum management through training and coaching;
- Teaching resources (Laptops, Tablets, Data projectors, Calculators, Study guides) to the school;
- Establishing and developing Communities of Practice among teachers and school leaders.

The QAMDO is one of the partners of the project specifically providing Mathematics and Physical Sciences support to selected learners and teachers from the 10 project schools.

The initial launch of the project took place on 20 April 2016 and was attended by all principals and subject coordinators of the 10 project schools. A total of 150 Grade 11 and 12 learners

were initially selected, but eventually 54 grade 11 and 74 Grade 12 learners participated in the project during 2016.

A Winter School Programme was held from 27 June to 01 July 2016 at the NMMU Missionville campus to prepare learners for the second semester curriculum. Mathematics and Physical Science teachers participated in four Professional Learning Community (PLC) training sessions, while the Mathematics learners participated in after-school Touch/Ten/Ten TAPS sessions facilitated by teachers from the schools. In 2017 the programme will be extended to include Grade 10 learners and will also provide support for Physical Sciences learners in the form of 8 four-hour Saturday sessions during the first three school terms, and one 8-hour school holiday session during October.



Initial introduction of project attended by Principals and Project co-ordinators from the 10 project schools



Learners attending the Winter School Programme at Missionville campus

## GeoGebra project leads to international collaboration to boost links between Arts and Mathematics

An Erasmus Mundus HE mobility grant was awarded to the QAMDO in July 2016 in order to establish a partnership with members of the International GeoGebra Institute which is based in Hungary. This grant was based on the fact that the QAMDO has active links with the said institute and the unit also hosts the oldest and most active GeoGebra virtual institute in SA. Members of the International GeoGebra Institute, have been partnering with the Arts Faculty of the University of Budapest in Hungary to promote Science, Technology, Engineering, Arts and Mathematics (STEAM) education globally and the Erasmus collaboration with the QAMDO at NMMU will see aspects of this project being extended to South African secondary schools. STEAM education represents a modern expansion of the global STEM Education movement with the focus on innovative use of technology to promote the awareness of the important role mathematics plays in providing the skills basis for problem solving and design in many professional environments including the Arts (see

<http://www.erasmusproject.eu/en/erasmus-project-aims-to-introduce-steam-education-to-the-education-community-in-sa-via-existing-geogebra>

development projects which forms part of the Mathematics development programme of the QAMDO in schools and Tertiary colleges. The particular focus will be to develop digital GeoGebra T&L materials and accompanying ICT training that could assist with the integration of ethno-mathematical aspects as part of the T&L of mathematics in SA schools and colleges.

The first phase of the Erasmus project consisted of a joint 5-day STEAM planning and sharing seminar that was hosted by the Faculty of Arts at the University of Budapest in Hungary during December 2016. Prof Dr Oliver and Dr P. Collett represented the QAMDO and delivered an overview talk about the use of an online techno-blended model and GeoGebra to develop mathematics skills of educators and learners in schools and colleges in South Africa. Various aspects of the use of GeoGebra to represent and promote applications of mathematics in art were also presented to participants during a series of workshops. Various follow-up seminars, including a GeoGebra STEAM conference at NMMU in 2017, is planned as part of the implementation of the Erasmus project over the eighteen months.

# Nmmu Caurses For Second Semester July 2014

**Liyong Dong**



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