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**Tel:** +27 11 614 9422



**Fax:** +27 86 595 9183



**Email:** [info@globallinkstraining.co.za](mailto:info@globallinkstraining.co.za)



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# Technology For Teaching And Learning Forum 2014

19th - 20th March 2014, FNB Conference & Learning Centre, Sandton Johannesburg

Exploring robust methods in providing digital open content for the youth, learner and institutions

Every year the demand for **Technology for Teaching and Learning** accessibility and development increases to enhance the facilitation between the learner and teacher process. New methods of innovation are transgressing towards a better developed Africa and the demands of Higher education are slowly met with some impediments along the way.

This annual forum serves as a multi-disciplinary forum for the exchange of information on research, development, and technological applications of all topics related to education Technology for Teaching and Learning Forum 2014.

Using **technology** for professional learning offers promises of improved results, often using Technology resources. Technology for teaching forum offers resources to improve access for learners who can engage with their learning 24 hours per day, seven days per week

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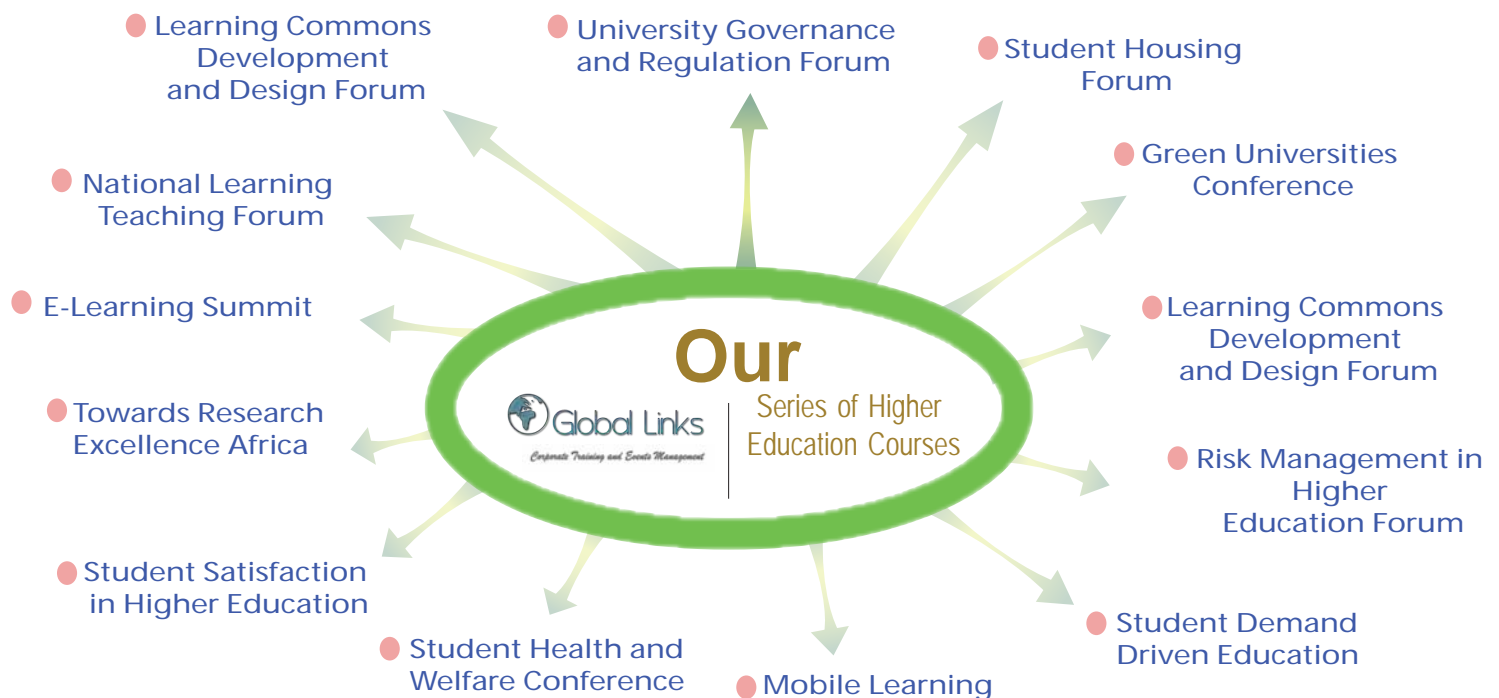


# Technology For Teaching And Learning Forum 2014

2014 - Technology for teaching and learning forum are broadening and redefining the learning landscape in unprecedented ways

As we map our way forward into Africa we are progressing into the development of *Technology for teaching and learning*. Technology through Innovation and innovating for better and more efficient learning processes Learning anywhere, at anytime is more of a reality now than ever before. To move towards the establishment of **"institutions in the cloud"**, we as South Africa, *Technology for teaching and learning forum* marks the way for innovative ways to implement Digital and Open Distance learning at all levels of post school education in order to expand access to education at an accelerated rate to meet the demands and needs.

With the cloud, social media and enhanced e-learning sessions seem to make a way in the Higher education there arena, still factors of rural accessibility connectivity and fewer researchers' innovators and investment still hinder the progression of *Technology for teaching and learning* – Last year when we regrouped we met with different professionals across the globe who shared different perspectives on Technology for Learning.



## Key Topics To Be Discussed:

- |  |  |   |
|--|--|---|
| <ul style="list-style-type: none"> <li>• Using practical/experimental skills to enhance learning in higher education sector</li> <li>• Using technology to enhance collaborative learning</li> <li>• Open Education Resource, Remote and Distance Learning</li> <li>• Online Learning</li> </ul> | <ul style="list-style-type: none"> <li>• IT Integration</li> <li>• Social Media</li> <li>• Online Competition</li> <li>• MOOCs Experience</li> <li>• New Opportunities</li> <li>• Global Trends for Mobile Learning</li> </ul> | <ul style="list-style-type: none"> <li>• Innovative use of iPads to enhance Mobile Learning</li> <li>• Curriculum Development and Change</li> <li>• Student engagement as the core of success for modern student centric learning and teaching</li> <li>• Student Digital Life</li> </ul> |
|--|--|---|

## Who Should Attend?

- |   |  |  |
|---|--|--|
| <ul style="list-style-type: none"> <li>• University Professors &amp; Lecturers</li> <li>• Higher Education Researchers</li> <li>• University IT Directors</li> <li>• Education Administrators</li> <li>• International Education Development Cooperation</li> </ul> | <ul style="list-style-type: none"> <li>• Learning Support Staff</li> <li>• ICT Programme Directors</li> <li>• E-Learning Specialists</li> <li>• Education Policy Makers</li> <li>• Faculty, Business Trainers</li> <li>• Teachers &amp; Instructors</li> </ul> | <ul style="list-style-type: none"> <li>• State Department of Education</li> <li>• Deans &amp; Department Directors</li> <li>• M-Learning Specialists</li> <li>• Consultants</li> <li>• Curriculum Designers</li> </ul> |
|---|--|--|



# Technology For Teaching And Learning Forum 2014

## Course Outline Day One

07:30 - 08:00 *Registration and networking*

08:00 - 08:20 *Opening remarks from the Chair*

08:20 - 08:30 **KEYNOTE ADDRESS:**

ICT in Higher Education - The bigger picture ICT in Higher Education is not just a remarkable technology but it holds the key in propelling South Africa towards a first world country and it has the "power" to aid in alleviating illiteracy.

How many times have you heard the saying that "knowledge is power"? ICT in higher education can bring knowledge to millions by bringing communication to all. This session will look at what this advanced technology can do for the "man on the street" and the global social advantages of implementation by analysing:

- Socio economic growth factors
- Meeting of digital continents
- Conceptual ICT in Higher Education propositions
- The way forward - everything you need to consider in using this infrastructure

8:30 - 09:15 *The use of Social Web Technologies (e.g. "web2.0") to support Learning and Communication in Higher Education Social web technologies*

- New approaches of learning and communication in higher education
- Why does Web 2.0 matter in higher education: drivers and enablers
- Global trends for social web technologies, collaborative learning and communication
- Usage and impact of social web technologies for collaborative learning and communication in Africa

09:15 - 10:00 *Morning tea*

10:00 - 10:15 *Emerging Technologies to Improve Pedagogy in Higher Education Institutions in South Africa:*

An authentic learning approach

- What are emerging technologies?
- Pedagogical practices using emerging technologies in South African higher education institutions
- The nine elements of authentic learning
- Emerging technologies to achieve authentic learning

10:15 - 11:00 *"Open Education Resources (OER): Leveraging Educational Advantage"*

- What are OER?
- What is possible with OER, that's different from fully copyrighted materials?
- Where can you find OER and how do you assess quality?
- How do you release your own teaching materials as OER? (Looking at Creative Commons licensing)

11:00 - 11:45 *Exploring the Impact and Implications of MOOCs on Universities*

12:30 - 13:30 *Lunch*

13:00 - 13:45 *Teacher Professional Development: Fashionable or Feasible?*

Managers often demand professional development of their staff, but are seldom able to deliver the goods. However, in spite of professional development becoming fashionable in the workplace, it often remains the Cinderella of staff development. The question this paper raises is, How feasible is professional development for Mathematics teachers?

This presentation refers to the results of a survey distributed in eight education management districts in the Western Cape Province. The purpose of the research was to develop guidelines for the professional development of Mathematics teachers in the pedagogical use of information and communication technology.

A multi-mode research methodology addressed the complex research question of what guidelines should underpin the professional development of Mathematics teachers. A systematic random sample selected 228 schools from 1455 schools in the Western Cape Province for this large scale survey conducted during February to March 2013. The researcher submitted a theory-based custom made questionnaire to 300 senior phase (grades 7-9) Mathematics teachers in 167 schools across eight education management districts in the Western Cape Province.

The survey inter alia probed on four professional development models adapted to the South African context. Results indicated that Mathematics teachers are eager to utilise information and communication technology for their teaching and learning, but require professional development initiatives to be constructed (face-to-face and/or online) according to their own individual needs, within their school context, and supported by the education management districts.

13:45 - 14:30 *Afternoon Workshop Commences Knowledge Management*

14:30 - 15:15 *Afternoon Refreshments*

15:15 - 16:30 *Afternoon Workshop Continues Closing remarks from chairperson and end of forum*



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# Technology For Teaching And Learning Forum 2014

## Course Outline Day Two

**07:30 - 08:00** *Registration & Networking*

**08:00 - 08:20** *Opening Remarks from Chairperson*

**08:20 - 08:30** *"Innovation in Digitality: The Future of Open Distance Learning (ODL) is Now"*

- Connectivism: The 21st Century Learner as e-Citizens
- Borderless, Timeless Education: Transitioning to a Technologically-Mediated Learning Environment
- Personal Learning Environments (PLEs): Emerging Trends and Trajectories
- Through a Realist Lens: Prospects and Challenges

**08:30 - 09:15** *"Disability and ICT - an opportunity for all."*

Disability is a worldwide challenge affecting numerous aspects of social and economic interaction among various population groups. People with disabilities are often faced with enormous challenges that impede on their day to day activities. In order to curb the potentially devastating effects of this situation, the international community has established a number of legislative interventions.

In the field of education, legislation addresses issues ranging from the right of every individual to be educated, to the promotion of inclusive/enabling schools and broad-based strategies for ensuring basic learning needs of every child, youth and adult. In South Africa, policies that regulate schooling and higher education have to be in alignment with the constitutional values of equity, non-discrimination and humanity, as well as with international developments. In higher education, legislation recognises the need for progressive access for students who were previously disadvantaged, which includes students with disabilities.

According to the National Plan for Higher Education, the moral and educational responsibility rests with the individual institutions to ensure that effective programmes and access opportunities are in place for students that are admitted. The Plan also makes provision for integrated academic development support to facilitate institutional and curriculum transformation, as well as the development of appropriate support systems.

In line with national and international developments, the Cape Peninsula University of Technology (CPUT) is putting initiatives into place to transform its curriculum and learning environment in such a way as to enable students with disabilities to experience a meaningful, enriching and inclusive academic life. This paper discusses ways in which this is being done at present, with reference to the role of ICT in the process, as well as possibilities for the future.

**09:45 - 10:00** *Morning Refreshments and Business Networking*

**10:00 - 10:15** *2014 trends and the use of social media and technology in learning.*

**10:15 - 11:00** *Innovative Use of iPads to enhance Teaching and Learning*

- Outcomes – evaluating the success of the use of iPads and how these were measured

- How the curriculum was changed/affected by this initiative
- Practical applications for using iPads in teaching – How can other Universities apply the use of iPads?.

**11:00 - 11:45** *Virtual learning systems - social learning impact in higher education*

- What comprises a Virtual Learning System – platforms, tool technologies
- Programme design – how to decide which platforms, technologies and tools to use; what is different from what we have done before
- Engaging the audience

**11:45 - 12:30** *Lunch & Networking Business*

**12:30 - 13:45** *"Learning 3.0 - the implications of Web 3.0" for learning in the 21st Century.*

In today's world the Internet makes us as smart as we want to be. More than that, the Internet lives on our cell phones and helps our cell phones make us even smarter. BUT, at the same time the Internet is learning a whole lot of things about us. In the process it is not just us that are getting smarter, the whole system is getting smarter. What does this imply for teaching and learning? This talk will consider the need for Personal Learning Environments in the context of Rhizomatic learning

**13:45 - 14:30** *Using Mobile Apps and Devices to enhance e-learning*

- Publishing academic books and journals on mobile phones and tablets
- Enhancing the learning experience to be more interactive and engaging
- How teachers and students can benefit from mobile technologies
- Case Studies from local and global academic publishers

**14:30 - 15:15** *Afternoon Refreshments and Business Networking*

**15:15 - 15:30** *Closing remarks from chairperson and end of forum*

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# Technology For Teaching and Learning Forum

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