



**Telecommunication
Development Bureau (BDT)**

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Nodes of the Centres of Excellence Network in
Africa and other selected institutions

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Subject: **Workshop on “Wireless Networking” for Centres of Excellence Nodes and Internet Training Centres in Africa, Kigali, Rwanda, 16-27 January 2012**

Dear Sir/Madam,

On behalf of the International Telecommunication Union (ITU), I am pleased to invite your organization to participate in a workshop on “**Wireless Networking**”, organized for the ITU Centre of Excellence Nodes and Internet Training Centres in Africa, to be held in **Kigali, Rwanda** from **16-27 January 2012**.

This training is organized jointly by the ITU and Abdus Salam International Centre of Theoretical Physics (ICTP), Italy, under the auspices of the ITU/ICTP Wireless Networking training project and will be hosted by the Kigali Institute of Science and Technology (KIST), Rwanda. The training will be conducted in English.

The workshop will cover a wide range of wireless technologies and their characteristics, analyzed in terms of bandwidth, cost, performance and availability.

The following are some of the topics that will be covered:

- Basics of wireless networking;
- Spectrum management and regulatory issues;
- Wireless standards;
- Wireless infrastructure and topologies;
- Radio link power budget calculation;
- Antennas, cables and connectors;
- Site survey techniques;
- Budgeting and planning of wireless networks;
- Wireless security and network monitoring management;
- Powering and lightning protection;
- Overview of WiMax and non-standard solutions.

This workshop is targeted at trainers from the ITU Centres of Excellence Nodes, Internet Training Centres and other institutions in Africa identified to benefit from this course. At the end of the training, each participating institution will receive a wireless networking training kit to take back with them.

If you wish to participate in this workshop, please complete the attached Registration Form (Annex 1) and return it no later than **20 December 2011** by e-mail to Prof. Ermanno Pietroseoli (epietros@ictp.it) with a copy to Mr. Jonathan Peter Mwakijele (jonathan@kist.ac.rw). Candidates for this training must have a background in networking fundamentals and must be prepared to run the wireless networking course in their institutions upon return. Interested candidates will undergo a selection process to be supervised by ICTP. The selected candidates will be advised and fellowship forms sent to them by ICTP who will be responsible for their administration.

There is no registration fee charged for participating in this workshop. However, please note that the air ticket costs and daily subsistence to cover meals and accommodation in Kigali, Rwanda, will be covered for a maximum of two participants from each participating institution.

Additional information on this workshop, including the Programme of the workshop as well as an Information Note for Participants can be found on the ITU Academy Portal at the following link <http://academy.itu.int/index.php/events> and on the ICTP wireless research group website at <http://wireless.ictp.it>.

I look forward to your active participation and invaluable contribution to this workshop.

Yours faithfully,

[Original signed]

Brahima Sanou
Director

Annex: 1



**Workshop on “Wireless Networking”
for Centre of Excellence Nodes
and Internet Training Centres in Africa**



**Kigali, Rwanda
16-27 January 2012**

REGISTRATION FORM

Please use **CAPITAL** letters.

Family Name

Given Name:

Title/Function:

Name of Organisation/Company:

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Office Address:

.....

Town: Country:

Telephone Number(s):

Fax Number(s):

E-mail:

Arrival: Date:..... Time: Flight No.:

Departure: Date:..... Time: Flight No.:

Please e-mail this form duly completed no later than **20 December 2011** to the following persons:

<p>Mr Jonathan Peter MWAKIJELE Kigali Institute of Science and Technology (KIST) BP 3900 Kigali, Rwanda Tel: +250 788 50 02 57 Fax: +250 571 924/571 925 E-mail: jonathan@kist.ac.rw</p>	<p>Prof. Ermanno Pietrosemoli Telecommunications/ICT for Development Laboratory (T/ICT4D) The Abdus Salam International Centre for Theoretical Physics (ICTP) Via Beirut 7 34014 Trieste - Italy Tel: +39 040 2240 406 Fax: +39 040 224 604 E-mail: epietros@ictp.it</p>
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