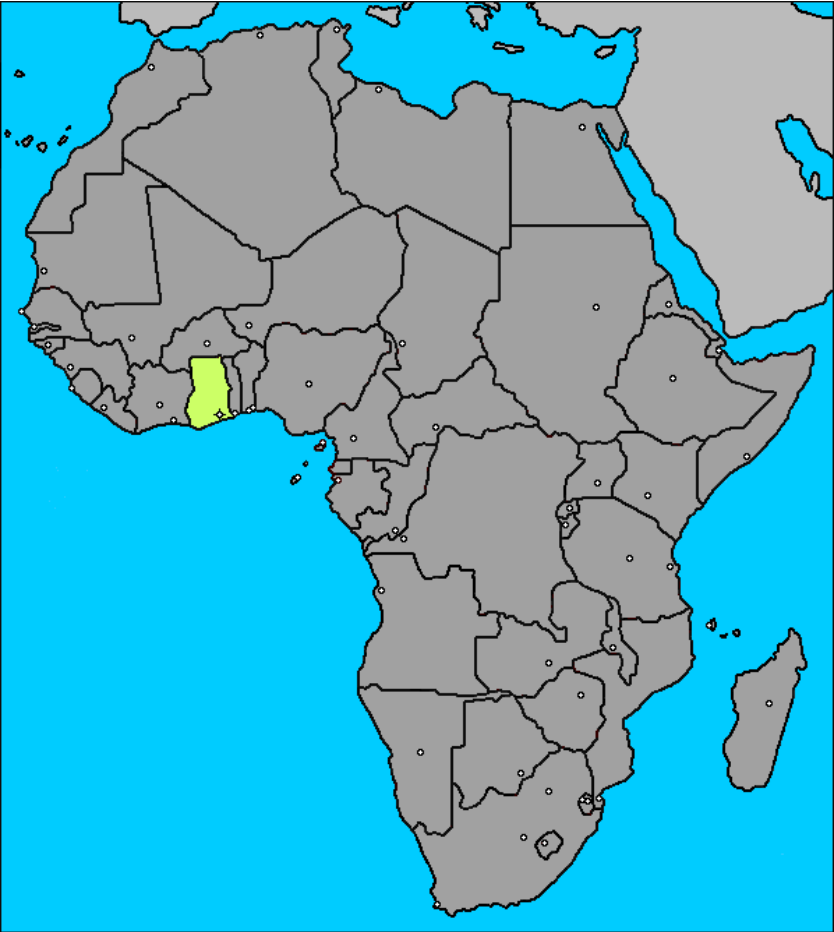




HEALTH OER AT KWAME NKRUMAH UNIVERSITY OF SCIENCE AND TECHNOLOGY , GHANA

*Peter Donkor, Provost, College of Health Sciences
UNESCO Meeting, Paris, December, 1 2010*

Ghana – population 22 million



KNUST – The Green Campus



KNUST

- Located in Kumasi, Ashanti Region
- Established in 1951
- ***Vision is to advance knowledge in science and technology for sustainable development***
- Governed by Council
- Headed by Vice-Chancellor
- 6 Academic Colleges i.e. **Health Sciences**, Engineering, Agriculture, Art and Social Sciences, Architecture & Planning, Science each headed by a Provost
- Deans of Faculties assist Provosts
- 28,000 students

College of Health Sciences



- Pharmacy and Pharmaceutical Sciences
- School of Medical Sciences
- Faculty of Allied Health Sciences
- Dental School
- Veterinary School
- Kumasi Center for Collaborative Research (KCCR)

Current Situation in College

- High faculty student ratios
- Inadequate classrooms, laboratories, etc
- High number of students during clinical instruction
i.e. bedside
theatre, etc
- Inadequate learning resources

Current Situation in Colleges



OER - First steps

- Sensitization of African Leadership, Ghana - 2008
- Michigan/OERAfrica sensitize faculty at College of Health Sciences KNUST - 2008
- Plan pilot OER project – July 2008
- U. Michigan/OERAfrica workshops in Kumasi on policy, production -2009
- Michigan faculty spends year in Ghana 2008/09



OER at KNUST



OER Production Process @ KNUST

- Voluntary participation by faculty
- Internal and external collaboration
- Content and Design by faculty, ICT, media specialists
- Clearing, Review and Quality Assurance or dScribing by media specialists
- Publication, Interoperability and Access by ICT experts


Some Completed OER at KNUST

- **Internal Medicine** Buruli Ulcer
Interpretation of Automated Blood Counts
Clinical Chemistry: Glucose Tolerance Test
- **Microbiology** Clinical Cases in Microbiology
Laboratory Methods in Microbiology
Introduction to Virology
- **OB/GYN** Examination of the Pregnant Patient
- **Behavioural Science** The Mental State Examination

Results

- OER productions completed and uploaded to dedicated KNUST website: <http://web.knust.edu.gh/oer/>
- Many more at different stages of completion
- Previously password protected
- Policy approved in August 2010
- Now free open access

KNUST OER Repository

 **KNUST Open Educational Resources**
Welcome to the KNUST Open Educational Resources official website.


You are currently using guest access ([Login](#))
English (en)

Login

Username
Password

[Lost password?](#)

Clock




Calendar

September 2009

Sun	Mon	Tue	Wed	Thu	Fri	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30			

This site is the Open Educational Resources (OER) component of the Kwame Nkrumah University of Science and Technology. The site has a vision of a next generation learning environment an environment that fosters collaboration around curricula, course materials and content; generates connections between disciplinary teachers, and learners; and inspires use of educational materials in a more personalized and effective way.



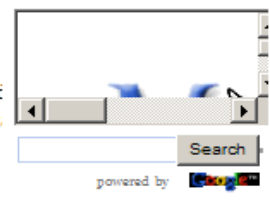
In a brave new world of learning, OER content is made free to use or share, and in some cases, to change and share again, made possible through licensing, so that both teachers and learners can share what they know.


Upcoming Events

There are no upcoming events











[Go to calendar...](#)

Moodle Google



powered by 

Course categories

- Behavioural Sciences**
 - Mental State Examination 
- Medicines**
 - Buruli Ulcer 
- Obstetrics and Gynaecology**
 - Sexually-Transmitted Diseases and Pelvic Infections 
 - Examination of a Pregnant Woman 
 - Caesarean Section 
 - Episiotomy & Repair 
- Basic Sciences and Laboratory Medicine**
 - Glucose Tolerance Testing 
 - Automated Blood Counts 
 - Microbiology 
- Pharmacy**
 - Therapeutics I 

LM 101: Laboratory Methods for Clinical Microbiology (Interactive Material) - Mozilla Firefox

File Edit View History Bookmarks Tools Help

http://web.knust.edu.gh/oer/mod/resource/view.php?id=54

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(2 unread) Yahoo! Mail, nadiatagoe KNUST Open Educational Resources LM 101: Laboratory Methods for ...

KNUST OER > LM 101 > Resources > Laboratory Methods for Clinical Microbiology (Interactive Material)

Welcome to

LABORATORY METHODS FOR CLINICAL MICROBIOLOGY

A collaborative learning project from the: and the:

**Department of Clinical Microbiology,
College of Health Sciences,
School of Medical Sciences,
Kwame Nkrumah University of Science and Technology,
Kumasi, Ghana**


**Departments of Internal Medicine and Microbiology & Immunology,
University of Michigan Medical School,
Ann Arbor, Michigan, USA**

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[Contributors and Contacts](#)



Note: Parts of this Programme are under construction


DISCLAIMER: Any medical information in this material is intended to inform and to educate and is not a tool for self-diagnosis or a replacement for medical evaluation, advice, diagnosis or treatment by a healthcare professional. You should speak to your physician or make an appointment to be seen if you have questions or concerns about this information or your medical condition.



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Done Secure Search 

Students' assessment of OER

- Based on Survey & Interview of medical students
 - Complements the teacher-learner interaction instead of replacing it
 - Makes the learning of complex scientific processes much easier when audio and visual interfaces are used
 - Makes laboratory and clinical demonstrations easier to understand
 - Facilitates in-class sessions as students are already familiar with the material

Summary of Milestones

- Hewlett Foundation funding for pilot project
- OER Coordinator appointed – Feb 2009
- Interdisciplinary collaboration – faculty from College of Health Sciences, Communication Design, Network Operating Center, Library, Distance Learning
- 16 OER productions outlined for completion
- Draft OER Policy committee – Feb 2009
- Training of Media Specialists and Copyright Reviewers (dScribes)
- Policy Approved – August, 2010
- Facilitation of OER workshop for Deans/Provosts of West African medical schools – Nov 2010

Current Challenges

- Topic-based instead course- or curriculum-focussed OER
- “Hobby” for faculty than serious activity
- Lack of incentives for production – promotion, free time, monetary etc
- Limited funding sources
- ICT-related - Student access to computer; infrastructure; Internet Bandwidth
- Current efforts limited to health OER

Financial Implications of OER

- Faculty time – approx 30 hours/production
- Hiring of media specialists
- Hiring of part-time administrator
- Establishment of secretariat and coordinating centre
- Equipment – PCs, video camera
- Software
- Institutional and national sensitization workshops

Way forward

- Policy implementation and structured development of OER
- Wider stakeholder involvement, MOE, MOH
- Sustainable funding and investment
- Partnering with students to reduce costs
- Faculty motivation to be addressed
- Develop metrics for evaluation of OER use
 - Administration, faculty, students
 - ? Cost-efficient; easier learning; easier teaching

PARTNERS



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