

Welcome!

iLab@MAK

iLAB@MAKBrief - Brief History

Feb 2004:

- Visit to MUK by Prof. J. del Alamo to demonstrate the Weblabs

Mar-Jun 2004:

- Introduction of the Microelectronics Weblab to students of Electrical Engineering
- Testing of the Heatex Weblab
- Testing of download times for the Microelectronics Weblab Clients

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Aug/Sept 2004:

- Installation of the new iLab Shared Architecture Service Broker named "EMUKLABS"
- Deployment of Service Broker(EMUKLABS) on the Makerere University Intranet
(URL: <http://emuklabs.mak.ac.ug>)
- Open Courseware mirror setup
(URL: <http://makocw.mak.ac.ug>)

iLAB@MAK - Brief History Continued

First Semester 2004/2005:

- Introductory Microelectronics Weblab exercises for First year Electrical and Telecommunications engineering students.
- Service Broker management- user accounts and lab groups creation
- Java Client upgrades
- 200 new courses+ search function added to Open CourseWare mirror

iLAB@MAK - Brief History Continued

Second Semester 2004/2005:

- Integration of a Microelectronics Weblab credit bearing exercise into the Electrical Materials II course (done by 2nd year Electrical Engineering students)

June 2005:

- Official start of active iLab-Africa
- iLab Meeting for iLab-Africa partners

iLab@MAK- Subdivisions

1. Electronics

- Analog Electronics
- Digital Electronics
- Power Electronics

2. Electromagnetics

- Charged particle systems
- Fields

3. Radio Frequency

- Microwave
- Antennas

iLAB@MAK - Planned Activities

PHASE I Activities (Duration: 1 year) :

1. Integration of iLab based Components into Relevant Courses
2. Training
3. Identification of Specific Feasible Weblab(s)
4. Identification of Corresponding Equipment (Hardware) and Development tools (Software)
5. Designing of the Lab(s)

iLAB@MAK - 1.iLab Integration

1. Period of Execution: 1st Quarter of Phase I
2. Planned Activities
 - Identification of Courses and Modules for integration
 - Curriculum Assessment
 - Design and Testing of lab tutorials and exercises for existing Weblabs
3. Place: MAK and MIT

iLAB@MAK- 2. Training

1. Period of Execution: 1st Quarter

2. Training Areas

- iLab Architecture
- iLab Toolkits
- Web Services & Related protocols
- Distributed Application Development Technologies
- Interfacing toolkits such as LabView
- New Technology based teaching methods

3. Place: MIT & MUK

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3. Identification of suitable Weblabs for Development

1. Period of Execution: 2nd Quarter

2. Lab Ideas

- Amplifier Design and Testing Weblab
- Digital Signal Processing and Filter Design Weblab
- Digital Circuits Weblab
- Microprocessors Weblab
- Embedded Systems Weblab
- Electromagnetics Weblab

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4. Design & Implementation of the Lab(s)

1. Duration: 3rd and 4th Quarters

2. Activities

- Identification of Corresponding Equipment (Hardware) and Development tools (Software)
- Lab Server System Development
- User Interface (Client) development

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Phase I Tentative Budget

Major Item	Percentage	Amount (\$)
Equipment & Tools	60%	24,000.00
Travel & Meetings	10%	4,000.00
Internships@MIT	30%	12,000.00

iLAB@MAK - Phase II

Phase 2:

1. Review of Phase I achievements
2. Bringing on-board other Departments such as Physics, Mechanical and Chemistry.