



Harnessing digital technologies for Teaching, Learning & Research

**Moodle Local Hosting – Server Administration and
Configuration**

www.tumusiimerobert.com

About Me



Mr. Robert Tumusiime

Senior E-learning Officer | Kabale University

- Learning Technologist & IT Expert
- 12+ Years of IT Products Dev't & Integration in Academia, Government & Private Sector

robertumciime@gmail.com , +256 (0) 703 626285

Digital Technology, Teaching & Learning

Digital Technology

Electronic tools, systems, devices and resources that generate, store or process data



Teaching

Engagement with learners to enable their understanding and application of Knowledge, Concepts and Processes

Learning

The acquisition of knowledge or skills through study, experience, or being taught.

Topic

Moodle Local Hosting – Focus on Server Administration and Configuration



How Education institutions are using technology in teaching and learning



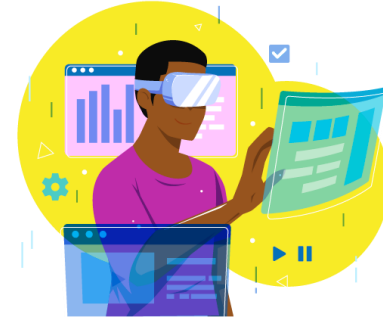
Smart Classrooms

Traditional classroom (front-of-class) aided with technology e.g., projectors, smart devices etc.



Virtual classrooms

Online-based teaching and learning environment using LMS & video conferencing tools



VR / Simulations

Simulating “real-life” situations in the virtual space e.g., experiments

Motivations: Demand, pandemics, high student numbers, Cost, Trend etc.

Approaches to e-learning

Every institution has their different approach to e-learning:

- Repository where lecturers are posting content for students
- Fully fledged Online Learning
- E-learning is a multi- faced enabler to reinforce F2F learning
- Multi - dimension , blended, fully fledged or just a REPOSITORY

Menu

Practical Hands on Session

- **Cloud Vs. Local hosting**
- • Local Server installation
- • Local Server administration
- • Moodle Installation
- • Theme installation and Setup
- • Advanced Moodle site admin
- • Content management
- • End of year operations
- • Server Backup setup & Management

Appreciation of

- Moodle
- Cloud Vs. Local Hosting
- Level of IT
- Roles within Moodle
- Support / Training / Response Time
- Survey

Kabale University

www.kab.ac.ug



Location

South Western
Uganda

KAB is a young rural based public University utilizing technology to offer quality education competitive enough with well established institutions

- Young Public University
- Low Resourced
- Limited Physical Infrastructure
- Increased Student Numbers
- Nationalities (Uganda, Rwanda, DRC, Burundi, Tanzania, Nigeria)



Institution Type

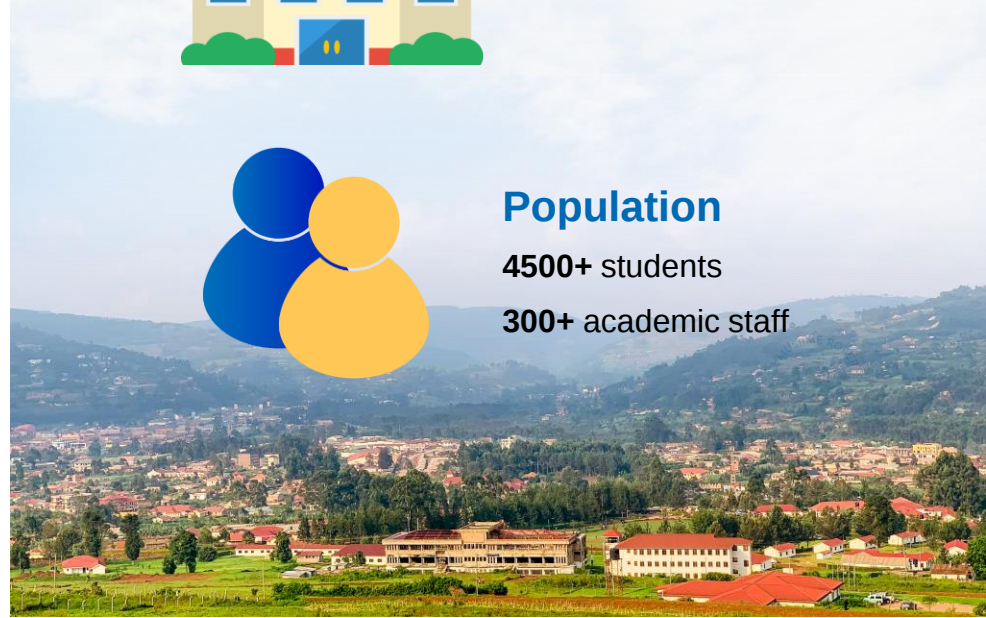
Public University



Population

4500+ students

300+ academic staff



2019

Pre-COVID19

- Staffing & infrastructure
- Policy Framework 2019/20

2021

COVID19 Pandemic

- Final examinations
- Staff Training on Grading
- Lesson Mapping
- eLearning Content Development Training Under - CIIAST, Malaysia
- Staff & Student Training (Oct - Nov)
- NCHE Reporting

Blended Learning &
Continuous Improvement

COVID19 Pandemic

- Needs Assessment (Surveys)
- Policy Framework 2020/21
- Training (staff & students)
- C-Code Project
- Content Development (to date)
- Continuous Assessment (to date)

2020

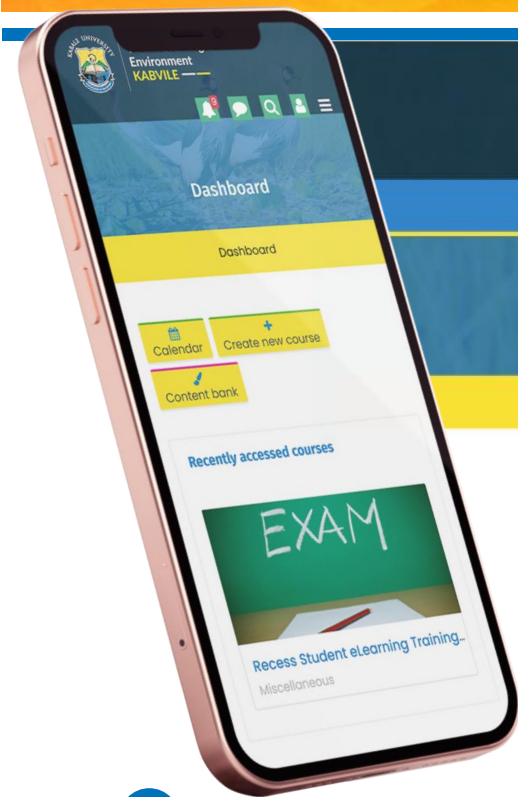
Post-COVID19

- Elearning studio construction
- Student Training (Apr)
- Application for full ODEL
- NCHE Reporting

2022



The Kabale Virtual Learning Environment



10

Environment
KABVILE

Virtual Learning Environment
KABVILE

Download Kabvile University Website

KAB Site Library Student Portal Help Desk Other Services Manuals Kabvile APP Campus News New

En

Recess Student eLearning Training 2022

Course management Turn editing on

Dashboard > My courses > STUD1108

Course rating

Hidden reviews: 0
Manage course reviews

Navigation

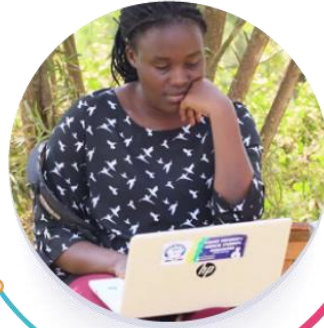
- Dashboard
- Site home
- My courses
 - STUD1108
 - Participants

Introduction Collapse all

Course Name: Recess Student eLearning Training
Course Code: STUD1108

This is a course to train recess students on the use of the eLearning platform. Please participate actively for smooth learning throughout the semester.

Announcements



ADMISSIONS

The admissions portal can be accessed via admissions.kab.ac.ug

APPLY

FACILITIES

- Internet connectivity
- Computer labs
- State-of-the-art servers
- Student Helpdesk
- E-learning studio
- Power back-up
- Inclusiveness plan

STUDENT INFO MGT

The admissions portal can be accessed via student.kab.ac.ug



E-LIBRARY

In addition to 3 physical libraries, the university also offers an electronic alternative which can be accessed via library.kab.ac.ug

KABVILE

KAB utilizes a Moodle-based LMS called the Kabale University Virtual Learning Environment (KABVILE). It can be accessed via elearning.kab.ac.ug



ELERT ~ HELPDESK

Reporting from the LMS / Support
www.elert.kab.ac.ug



E-library Services

Remote Access

For off-campus access to books.

app.myloft.xyz

E-Resources

Find more online resources.

library.kab.ac.ug/electronic-resources/

Catalogue

Find books, media, journals & more.

opac.library.kab.ac.ug

Open Access

Search massive online databases for papers.

https://library.kab.ac.ug/e_resources/open-access-resources

KABIDR

Explore vast collection of university research works.

<https://idr.kab.ac.ug/>



LMS REPORTING

Project Name: KAB Elert (Kabale University E-learning Reporting Tool)*

Address: <https://elert.kab.ac.ug>

Being Developed:

To track status of critical parameters within the LMS and provide real time insights and visual analysis about the same using an intuitive interface.

Current Features:

- Course Units Allocated to Lecturer
- No. of Modules uploaded per Unit
- Type of Content uploaded per Module
- Student Enrollments Per Course Unit
- Active Course Units per Lecturer
- School / Faculty Specific Info
- Exams and Submission Status
- School / Faculty Data Export in Excel

Local solution continuously being developed to combat the challenge of insufficient reporting over a Moodle-based LMS



Challenges / Gaps Identified

- Policy decisions – no eLearning policy or embedded within ICT Policy
- Inadequate funding for research and (R&D) in e-learning
- Inadequate internet bandwidth data bundle costs
- Limited ICT Skills
- insufficient Internet connectivity
- Non-compensation for Internet outside the university
- Access to computers / laptops (BYOD, LOAN...)
- Inadequate computer laboratories / Physical space
- Inadequate physical space/ facilities for computer laboratories /
- High costs of required ICT Infrastructure (H//W) Cloud Vs. On Premise
- Frequent Power outages
- High costs of specialised software licenses e.g, AI proctoring tools, virtual labs for Medical students
- Insufficient reporting from LMSs



Reasons for Success & Failure of eLearning in HEIs

- High student numbers
- Low investment in ICT infrastructure
- Lack of Policy to guide adoption of eLearning
- Limited physical infrastructure
- Packaging
- Access to ICT devices
- Internet Penetration (Availability Vs. Cost)
- Mobile devices revolution
- Pandemics
- Limited budgets for R&D
- Insufficient ICT / computer skills
- Communication Tools



Recommendations for successful integration of e-learning in African HEI

- Institution administration commitment is critical e.g., Management and Council
- You have to start from somewhere
- Engage an eLearning consultant during onboarding
- don't just higher qualifications
- Preparedness by lecturers and Students is critical (Training / Retooling)
- Establishment of technical teams handling different faculties / schools (Champions)
- Student leadership involvement in planning and implementation is key
- Internet connectivity and Power backup systems for the university
- Variety of Assessment Types and questions to address the different elements of bloom's taxonomy
- Adoption of Tools and Techniques of handling practical and mathematical sessions
- Handling time zones
- Enhancing technology skills of students and providing alternative methods of completing the tasks



Recommendations to HEIs

- Examinations regulations catering for online Assessment needs to be considered
- E-Learning Infrastructure and support systems are critical
- Timely student & staff support
- Interest government in investment into eLearning
- Interest the private sector for collaboration and partnerships
- Policy and Management decision Making is critical
- **Strategies for Handling remedial and Special Needs students is a key policy matter for consideration**
- Legal framework and issues of confidentiality, copyright and IPR
- Investment of resources in R&D for elearning
- **Adaptation of a reporting tool is critical for M&E**
- Management of risks of various companies now trading in online examination systems



Any Questions?

Thank You!

