



KAIMOSI FRIENDS UNIVERSITY (KAFU)
Office of the Dean, School of Computing and Information Technology
INTERNAL MEMO

FROM: Dean SCIT

DATE: 23rd October, 2024

TO: ALL SCIT STUDENTS

REF: KAFU/508/SC.BD/004 Vol.1 (019)

SUBJECT: INVITATION FOR THE 2024/2025 ACADEMIC YEAR INNOVATION WEEK!

The above subject matter refers,

The Directorate of Research, Innovation and Outreach (RIO) is planning for upcoming **Innovation Week** at Kaimosi Friends University, an event dedicated to showcasing transformative ideas and pioneering solutions. This exciting event is scheduled to take place in early 2025, bringing together thought leaders, innovators, students, and industry experts.

Event Highlights:

- Workshops and Seminars: Led by field experts covering the latest trends in innovation and technology.
- Project Showcases: Featuring groundbreaking research and projects from our students and faculty.
- Networking Opportunities: Connect with industry leaders, entrepreneurs, and investors.
- Panel Discussions: Addressing challenges and opportunities in the innovation landscape.

I believe that your participation will add significant value to this event and inspire the community to embrace innovative solutions for societal challenges. Attached are some of the possible projects you can leverage on. You are allowed to work in teams.

Note: The best project(s) shall be selected and awarded and incubated.

Thank you.

Prof. Kelvin K. Omieno, PhD
Associate Professor of Information Technology
& DEAN SCIT

Copy: Ag. Vice Chancellor
Ag. Deputy Vice Chancellor (ASA&R)
Director, RIO



Kaimosi Friends University (KAFU) is ISO 9001:2015 Certified

1. Campus Waste Management and Recycling System

- **Description:** Develop a smart waste management system, perhaps using IoT sensors, to monitor waste levels in bins and optimize collection schedules.
- **Impact:** Reduces litter, promotes recycling, and decreases waste management costs.

2. Student Health and Wellness App

- **Description:** An app that tracks students' physical and mental well-being, offering features like mental health support resources, reminders for health checkups, and exercise tracking.
- **Impact:** Improves student well-being, provides a centralized resource for health information, and can reduce stress.

3. E-Library and Knowledge Management System

- **Description:** An online portal that centralizes resources from various courses, allowing students to access lecture notes, e-books, journals, and research papers from anywhere.
- **Impact:** Improves accessibility to learning resources, helping students in remote learning or off-campus studies.

4. Green Energy Solutions for Campus

- **Description:** Propose a campus energy management solution, such as solar energy installations or a system to optimize electricity usage in classrooms and dorms.
- **Impact:** Reduces the university's carbon footprint and operational energy costs.

5. Automated Attendance and Class Monitoring System

- **Description:** Design an app or system using RFID, facial recognition, or QR codes to automatically record class attendance and track student engagement.
- **Impact:** Saves administrative time, ensures accurate attendance records, and encourages student accountability.

6. University Financial Aid Management Platform

- **Description:** A web-based system for students to apply for scholarships and financial aid, track application progress, and receive updates.
- **Impact:** Streamlines the financial aid process, increasing transparency and making it easier for students to access financial support.

7. Smart Campus Navigation and Accessibility App

- **Description:** An app that helps students navigate the campus, find classroom locations, locate key facilities, and identify accessible paths for people with disabilities.
- **Impact:** Enhances campus accessibility and convenience for all students, especially those new to the university.

8. Virtual Classroom and Study Group App

- **Description:** An app or platform that facilitates virtual study groups and real-time class collaborations, helping students connect and work on assignments outside class hours.
- **Impact:** Encourages collaborative learning and supports flexible study arrangements.



9. Online Career Services and Internship Matching Platform

- **Description:** A platform that matches students with internship opportunities, allows them to network with employers, and provides career guidance.
- **Impact:** Enhances employability by helping students gain hands-on experience relevant to their fields of study.

10. AI-Powered Academic Advising and Support Bot

- **Description:** An AI chatbot that assists students with academic advising, scheduling, and answering general questions about courses and university services.
- **Impact:** Reduces wait times for academic support and offers personalized assistance to students around the clock.

11. Asset Management System

- **Description:** A digital system designed to track and manage university assets, including furniture, equipment, vehicles, and infrastructure. It allows the university to monitor asset location, condition, and usage history, enabling efficient allocation, maintenance scheduling, and reducing losses.
- **Impact:** Improves asset visibility, reduces costs, and extends asset lifespan through timely maintenance.

12. Performance Contracting App

- **Description:** An app to manage and track performance contracts within the university. It enables staff and management to set, update, and evaluate performance targets, track progress, and provide feedback in real time.
- **Impact:** Streamlines performance tracking, increases accountability, and helps align individual goals with the university's strategic objectives.

13. Online Recruitment Application/System

- **Description:** A web-based platform that simplifies the recruitment process for the university by allowing applicants to submit resumes, complete assessments, and track application status. It provides HR with tools to manage applications, schedule interviews, and communicate with candidates.
- **Impact:** Speeds up recruitment, improves candidate experience, and aids in selecting top talent efficiently.

14. Online Voting System

- **Description:** A secure digital platform for conducting elections within the university, allowing students and staff to vote remotely using verified credentials. The system ensures vote integrity, provides real-time tallying, and safeguards against duplicate or fraudulent votes.
- **Impact:** Enhances election transparency, increases voter participation, and ensures secure, efficient voting processes.

15. Online Student Admission System

- **Description:** A web-based platform that allows prospective students to apply for admission online. It simplifies the application process by enabling document uploads, tracking application status, and automated eligibility assessments.



- **Impact:** Reduces paperwork, enhances accessibility for applicants, and streamlines the admission process for the university.

16. Career Advising System

- **Description:** A digital platform providing career guidance to students, with features like career assessments, job matching, and resources on skills development. Students can connect with career advisors for personalized advice and access information on potential career paths.
- **Impact:** Helps students make informed career choices, improves employability, and bridges the gap between education and industry.

17. Online Health Unit Referral System

- **Description:** An online system that allows students to obtain referrals to external healthcare providers directly from the university health unit. It enables easy tracking of student health records and referral history.
- **Impact:** Improves access to healthcare, streamlines referrals, and ensures continuity of care for students requiring specialized medical services.

18. Missing Mark Register

- **Description:** A system where students can report missing or incorrect grades for their courses, alerting faculty and administration for timely resolution. It keeps a record of reported cases and tracks resolution progress.
- **Impact:** Enhances accuracy in grading, reduces errors, and increases student satisfaction by addressing grade-related issues promptly.

19. Student Customer Satisfaction Survey App

- **Description:** An app that allows students to provide feedback on various university services and facilities. It features surveys and ratings on academics, campus amenities, and administrative services, offering insights into student satisfaction.
- **Impact:** Helps the university identify improvement areas, ensures services meet student needs, and fosters a student-centered approach.

.....

