

TADESSE BIRARA AKELE

Lecturer & Electronic Learning Management Division Directorate Director

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EXPERIENCE

Electronic Learning Management Division Directorate Director

Wollo University

📅 Feb 2024 – Present

📍 Dessie, Ethiopia

- **Training Coordination:** Coordinated and facilitated training sessions for Wollo University instructors and students on online pedagogy, in collaboration with the Ministry of Education (MoE FDRE), Arizona State University, and the Mastercard Foundation. Ensured effective delivery of training content to enhance online teaching and learning skills.
- **Developed and Implemented E-Learning LMS:** Led the development and implementation of a Learning Management System (LMS) for Wollo University. Worked closely with stakeholders to design a user-friendly platform that supports the university's e-learning initiatives and enhances the overall educational experience.
- **Collaborated on eSHE Initiative:** Actively participated in the eSHE (e-learning for Strengthening Higher Education) initiative. Coordinated efforts with MoE FDRE, Arizona State University, and the Mastercard Foundation to promote and integrate e-learning solutions, contributing to the advancement of higher education in Ethiopia.

Lecturer

Wollo University

📅 July 2021 – Present

📍 Dessie, Ethiopia

- **Course Development and Instruction:** Designed and delivered courses in Information Systems, enhancing student engagement and learning outcomes.
- **Research Projects and Publications:** Conducted research and published findings in peer-reviewed journals, contributing to the field of Technology.
- **Community Services:** Participated in many community Service activities.

Assistant Lecturer

Wollo University

📅 July 2018 – July 2021

📍 Dessie, Ethiopia

Teaching Assistant

Wollo University

📅 Sept 2017 – July 2018

📍 Dessie, Ethiopia

EDUCATION

MSc in Computer Networks and Communications

Wollo University

📅 Oct 2019 – July 2021

- **Achievement:** Very great distinction with cumulative grade point average (cGPA) of 3.92/4.00.

BSc in Information Systems

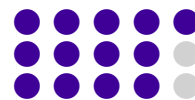
Mekelle University

📅 Sept 2013 – July 2017

- **Achievement:** Very great distinction with cGPA of 3.76/4.00.

LANGUAGES

Amharic
English
Tigrigna



JOB-RELATED SKILLS

- Web development, Hardware and Software maintenance, Network design and installation, android app development...

CODING SKILLS

- C, C++, Matlab, Python, HTML, PHP, Java...

AWARDS/CERTIFICATES

- System Admin Level I and II certification from Arizona State University.
- Master Class: Foundation for Excellence in Online Teaching Certification from Arizona State University.
- Higher Diploma Program in Teaching in Higher Education.
- Grant Writing Training Certification.
- Online Course Training in Machine Learning.
- Administrative Data Management System Trainer for Kombolcha City Government Officials.
- Training of Trainers certification from iCogAnyone Can Code Company.
- Trainer on Harnessing AI Tools for Effective Academic Writing.
- Advanced Programming Trainer, Dessie Special Boarding School.
- BunnaScript Programming Trainer, Dessie Special Boarding School.
- Office Machine Maintenance Trainer for South Wollo IT Specialists.
- Computer Maintenance Service for Wollo University KIOT Campus.
- Office Machine Maintenance certification from SATCOM Ethiopia.

RESEARCH GRANT AWARD

- Ethiopic Cryptography: An Efficient Hybrid Encryption Algorithm for reducing cyber security attack.
- Designing Cybersecurity Behavior Assessment (ECBA) framework for Government Employees to Mitigate Cyber Security Attacks.

PUBLICATIONS

1. Akele, T.B. et al. (2025). Ethiopic Cryptography: An Efficient Hybrid Encryption Algorithm for Reducing Cybersecurity Attack. In: Birhane, A., Shewarega, F., Bitew, M.A., Wagaw, M., Abebe Ashetehe, A. (eds) Advancement of Science and Technology. ICAST 2023. EAI/Springer Innovations in Communication and Computing. Springer, Cham.
2. Haile, S.B., Belay, T.D., Bahiru, T.K., Akele, T.B. (2025). Deep Learning-Based Emotion Classification for Amharic Texts. In: Birhane, A., Shewarega, F., Bitew, M.A., Wagaw, M., Abebe Ashetehe, A. (eds) Advancement of Science and Technology. ICAST 2023. EAI/Springer Innovations in Communication and Computing. Springer, Cham.
3. Viju Prakash, M., Tadesse Birara, A., Alemu Jorgie, M. (Sept 2024). Securing network data with a novel encryption scheme. ISBN: 978-1-394-27227-3, Creative Approaches Towards Development of Computing, Multidisciplinary IT Solutions for Society, Wiley and Sons (Scopus Indexed)
4. T. K. Bahiru, V. S. Manjula, T. B. Akele, E. A. Tesfaw and T. D. Belay, "Mining Road Traffic Accident Data for Prediction of Accident Severity," 2023 International Conference on Intelligent Data Communication Technologies and Internet of Things (IDCIoT), Bengaluru, India, 2023, pp. 606-612,
5. Gedefie A, Birara T, Misganaw S, Bambo GM, Kebede SS, Tilahun M, et al.(2023) Clinical profiles, epidemiological characteristics and treatment outcomes of COVID-19 patients in North-eastern Ethiopia: A retrospective cohort study. PLOS Glob Public Health 3(9): e0002285.
6. Dr.V.S. Manjula Mr. Tadesse Birara, Web Technology, 1st ed. India, SCIENTIFIC INTERNATIONAL PUBLISHING HOUSE, 2022, ISBN: 978-93-5625-163-2.
7. Gietaneh, M. D., Akele, T. B. (2023). Enhancing the Hill Cipher Algorithm and Employing a One TimePad Key Generation Technique. Abyssinia Journal of Engineering and Computing, 3(1), 1-10.

COMMITTEE SERVICES

- **Member:** Staff hiring Committee, at Wollo University, KIOT, Kombolcha, Ethiopia, October 2019 to June 2020.
- **Member:** Curriculum Review Committee at Wollo University, KIOT, Kombolcha, Ethiopia, June 2023 to September 2023.
- **Member:** Exam review Committee at Wollo University, KIOT, Kombolcha, Ethiopia, September 2019 to September 2020.
- **Member:** DC Committee at Wollo University, KIOT, Kombolcha, Ethiopia, September 2018 to September 2019 and September 2023 to present.
- **Member:** Discipline Committee at Wollo University, KIOT, Kombolcha, Ethiopia, March 2023 to present.

REFEREES

Dr. Alemu Jorgie

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Associate Professor, Academic Affairs Director

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Dr. M. Viju Prakash, M.E., PhD., MISTE, MIAENG, Member in IEEE (Madras section), Solutions Architect - AWS, Senior Lecturer,

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Associate Professor, My Former Teacher at Wollo University

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