AOU Civil Engineering (RTTI) — Lecturer Handbook

Teaching schemes, lab instructions, rubrics & assessment · Draft

AKPAKIP ORO UNIVERSITY (AOU)
Faculty of Engineering — Department of Civil Engineering
LECTURERS' HANDBOOK (Draft)
Civil Engineering: Railway, Tunnel and Transport Infrastructure (RTTI) Option
For teaching staff and laboratory supervisors

1. Purpose and Responsibilities
• Deliver courses against the learning outcomes in the Students' Handbook.
• Publish the week-by-week scheme and assessment plan in the first week.
• Design assessments that test the stated outcomes.
• Mark consistently, moderate with colleagues and give timely feedback.
• Supervise projects, SIWES and laboratory work to the standards set here.

2. Programme Outcome Mapping (main contributing courses)
Engineering science · Structural design · Geotechnical · Highway · Railway · Tunnel · Construction management · Sustainability · Digital engineering · Professional practice

3. Teaching Schemes
Year-by-year delivery mode and assessment weights (CA/Exam, lab, design project, SIWES logbook/report/assessor) for all CVE courses from Year 1 to Year 5.

4. Lesson Planning
Every session requires a written lesson plan (course/week, outcomes, prerequisites, resources, activities/timing, check for understanding, homework). Worked example included for Railway Engineering I (track geometry).

5. Laboratory and Practical Instructions
• Concrete compressive strength (Materials laboratory)
• Differential levelling (Engineering Surveying I)
• Atterberg limits and sieve analysis (Soil Mechanics I)
• Asphalt mix design, Marshall method (Pavement Materials)

6. Assessment Design
Cognitive-level blueprint (Remember → Evaluate). Continuous assessment design rules.

7. Rubrics
Design project · Laboratory report · Oral defence (4-point scale).

8. Marking, Moderation and Feedback
Mark against published scheme; moderate ≥10% of scripts; return timely feedback; retain records.

9. Supervision of Projects and SIWES
Meeting frequency, proposal approval, draft review; placement checks and assessor evaluation.

10. Quality Assurance and Accreditation Readiness
Course files, equipment calibration records, external examiner, CCMAS mapping updates.

11. Academic Integrity and Professional Ethics
Policy briefing, similarity checking, misconduct reporting, modelling ethical practice.

Draft for departmental approval.
Ojei Bari Avañ Ki