AOU Agricultural & Bioresources Engineering — Student Handbook

B.Eng. · FSP & EWE options · COREN · Draft

AKPAKIP ORO UNIVERSITY (AOU)
Faculty of Engineering — Department of Agricultural and Bioresources Engineering
STUDENTS' HANDBOOK (Draft)
Agricultural and Bioresources Engineering
(Food, Seafood and Packaging; Environmental and Waste-to-Energy options)

1. Welcome
This handbook explains the ABE programme: what you will study, how you will be assessed, and where to get help.

2. About the Programme
Engineers who design systems that produce, process, package and manage resources that feed people and power communities. Years 1–2 build foundations; Years 3–5 add option specialisation, culminating in an integrated design project and defence.

Graduate profile
• Design farm, water and bioresource systems to applicable standards.
• Design food and seafood processing and packaging systems that are safe and efficient.
• Design waste management and bioenergy systems that protect the environment.
• Assess environmental impacts and promote sustainable agriculture and food systems.
• Work ethically and communicate effectively with farmers, communities and industry.

Professional registration: COREN pathway. Keep SIWES records and project reports.

3. Programme Structure (5 years / 10 semesters · ~208 units)
Options: Food, Seafood and Packaging (FSP) · Environmental and Waste-to-Energy (EWE)

Year 1 — Engineering Foundations
Year 2 — Core Engineering (mechanics, soil & water, microbiology, agricultural machinery)
Year 3 — Specialist Foundations (biomass, food chemistry/microbiology, unit operations, irrigation; FSP/EWE starters)
Year 4 — Advanced Design + SIWES (food engineering, seafood, packaging, biogas, waste-to-energy, cold chain)
Year 5 — Specialisation, Integration & Final-Year Design Project

Key FSP: ABE 309/401 Food Process Engineering · ABE 311/403 Seafood · ABE 312/404 Packaging · ABE 410 Cold Chain · ABE 510 Food Plant Design
Key EWE: ABE 313/314 Waste & Anaerobic Digestion · ABE 405 Biogas · ABE 406 Waste-to-Energy · ABE 412 Bioreactor · ABE 503 Advanced WtE · ABE 511 Landfill Design

Draft for Faculty approval. Codes/units provisional pending NUC CCMAS reconciliation.
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