

Department of Agricultural & Bio-Resources Engineering
Faculty of Engineering
Ahmadu Bello University, Zaria
Programme Outcome

Programme Outcome (PO) are the attributes (Knowledge, Skills and Attitude) students should have at the time of graduation. A graduate of the Engineering programme is expected to have the following abilities:

1. **Engineering Knowledge (PO1):** apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of developmental and complex engineering problems.
2. **Problem Analysis (PO2):** identify, formulate, research literature, and analyze developmental and complex engineering problems, reaching substantiated conclusions using the first principles of mathematics, natural sciences, and engineering sciences.
3. **Design/Development of Solutions (PO3):** proffer solutions for developmental or complex engineering problems and design systems, components or processes that meet specified needs with appropriate consideration for public health and safety, cultural, societal, and environmental considerations.
4. **Investigation (PO4):** conduct investigation into developmental or complex problems using research-based knowledge and research methods, including design of experiments, analysis and interpretation of data, and synthesis of information to provide valid conclusions.
5. **Modern Tool Usage (PO5):** create, select, and apply appropriate techniques, resources and modern engineering and ICT tools, including prediction, modelling, and optimization, to developmental and complex engineering activities, with an understanding of the limitations.
6. **The Engineer and Society (PO6):** apply reasoning informed by contextual knowledge, including Humanities and Social Sciences, to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to professional engineering practice.
7. **Environment and Sustainability (PO7):** understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.
8. **Ethics (PO8):** apply ethical principles and commit to professional ethics, responsibilities, and norms of engineering practice, including adherence to the COREN Engineers Code of Conduct.
9. **Individual and Team Work (PO9):** function effectively as an individual, member, or leader in diverse teams and multi-disciplinary settings.
10. **Communication (PO10):** communicate effectively on developmental or complex engineering activities with the engineering community and with society at large, such as being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.
11. **Project Management (PO11):** demonstrate knowledge and understanding of engineering, management and financial principles and apply these to one's work as a member and leader in a team to manage projects and in multi-disciplinary environments.
12. **Lifelong Learning (PO12):** recognize the need for and have the preparations and ability to engage in independent and lifelong learning in the broadest context of technological and social changes.