

Covenant University

B.Eng. Degree Programme in

Petroleum Engineering

Programme Outcomes (POs)/ Student Outcomes (SOs)

FOF

COMPLIANCE WITH THE ACCREDITATION OF ENGINEERING PROGRAMMES IN NIGERIAN UNIVERSITIES

BY

COUNCIL FOR THE REGULATION OF ENGINEERING IN NIGERIA

Established by Decrees 55/70 and 27/92 (amendment) now the Engineers (Registration, etc.) Act, CAP E11, 2004

2022-2027 SESSION

Programme Outcomes (POs)/ Student Outcomes (SOs) of the Department Petroleum Engineering, Covenant University

The Programme Outcomes are presented in Table 1.

Table 1: Programme Outcomes

O1. Engineering knowledge	Apply knowledge of mathematics, science, engineering fundamentals and an engineering specialization to the solution of developmental and complex engineering problems.				
O2. Problem Analysis	Identify, formulate, research literature and analyse developmental and complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences and engineering sciences.				
O3. Design /development of solutions	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				
O4. Investigation	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 valuations.				
O5. Modern Tool Usage	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.				
O6. The Engineer and Society	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				
O7. Environment & Sustainability	Understand the impact of professional engineering solutions in societal and environmental contexts and demonstrate knowledge of and need for sustainable development.				
O8. Ethics	Apply ethical principles and commit to professional ethics and responsibilities and norms of engineering practice, including adherence to the COREN Engineers Code of Conducts.				
O9. Individual and Team work	Function effectively as an individual, and as a member or leader in diverse teams and in multi-disciplinary settings.				
O10. Communication	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.				
O11. Project Management and Finance	Demonstrate knowledge and understanding of engineering, management and financial principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multi-disciplinary environments.				

O12. Lifelong learning	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.
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Table 2: Link between the student outcomes and the program educational objectives

OB1	OB2	OB3	OB4	OB5
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