

EN8905 Energy, Environment and Sustainability



Course Aim To provide engineering students with understanding of principles and concepts of earth system, energy systems, and use technologies to meet energy demands in a sustainable manner and in line with energy policy and politics.

Short Title	Energy and Sustainability	Version	2
Faculty	EDICT	Effective From	September 1, 2016
Polytechnic Level		Indicative NQF Level	8
Credits	15	Student Contact hrs	60
Pre-requisites	Minimum of 60 credits at level 7 from the Beng Tech Programme	Self-directed hrs	90
Co-requisites		Other directed hrs	0
Anti-requisites		Total learning hrs	150

Learning Outcomes On successful completion of this course, students will be able to:

- 1 Demonstrate a critical knowledge and understanding of the principles and concepts underlying earth system, environment and global energy balance.
- 2 Assess current and potential future energy systems to meet regional and global energy needs in a sustainable manner.
- 3 Investigate the interaction between environment, energy and policy and debate the contending viewpoints on these issues.

NQF Sub-strand
 Theoretical Understanding
 Practical Application of knowledge
 Generic, Problem Solving and Analytical Skills