

BE (HONS) (PROCESS AND CHEMICAL) ENGINEERING

Programme Learning Outcomes

Programme Learning Outcomes for BE (Hons) (Process and Chemical Engineering) (NFQ Level 8, Major Award)

On successful completion of this programme, students should be able to:

- Demonstrate an understanding of the sciences (mathematics, chemistry, physics, biochemistry, microbiology and biotechnology) which underpin chemical engineering;
- Recognise, delineate, analyse and solve in a professional and practical way, the problems in processing industries, technical and otherwise, which are susceptible to engineering treatment;
- Apply pertinent knowledge to the practice of Process and Chemical engineering in an effective and professional manner;
- Appreciate the national and global needs for sustainable development, and the professional engineer's responsibility regarding the environment and society at large;
- Appreciate the need for the highest ethical standards in professional engineering;
- Work in multidisciplinary teams;
- Communicate effectively with the engineering community and with society at large;
- Appreciate the importance of continuing professional development.