	EN8918	Applied and Process Heat Transfer

Course Aim	To equip students with specialized knowledge and practical experience in heat transfer engineering for Industrial applications.

Short Title	A&P Heat Transfer	Version	1
Faculty	EDICT	Effective From	February 1, 2018
Polytechnic Level		NQF Level	8
Credits	15	Student Contact hrs	60
Pre-requisites	EN7919	Self-directed hrs	90
Co-requisites	None	Other directed hrs	0
Anti-requisites	EN7918	Total learning hrs	150

Learning Outcomes	On successful completion of this course, students will be able to:	NQF Sub-strand
1	Integrate specialist theories, principles and concepts of the modes of heat transfer to critically analyze and evaluate heat transfer in mixed mode situations in practical project settings.	Theoretical Understanding
2	Apply creative analytical design skills to enhance the rate of heat transfer in complex applications for industrial use.	Practical Application of knowledge
3	Apply industry standard heat transfer techniques to solve complex industrial Heat Exchanger problems.	Generic, Problem Solving and Analytical Skills
4	Apply standard investigative methods and design procedure for the thermal analysis of Heat Exchangers in Thermal Power Plant.	Practical Application of knowledge