## EN6902

## Engineering Mechanics 2



Course Aim This course introduces the fundamentals of statics in engineering mechanics and develops students' skills in solving statics engineering problems

Short Title EM2 Faculty EDICT Polytechnic Level Credits 15

Pre-requisites EN6907 and EN6903

Co-requisites None Anti-requisites None Version 8

Effective From September 1, 2018

Indicative NQF Level 6 Student Contact hrs 90 Self-directed hrs 60

Other directed hrs 0
Total learning hrs 150

Learning		On successful completion of this course, students will be able to:	NQF Sub-strand
Outcomes	1	Determine unknown forces for non-concurrent force systems such as pin-jointed	Practical
		frameworks using graphical and analytical techniques.	Application of
	2	Select appropriate beams for engineering applications by calculating stresses, and	knowledge Practical
		considering mechanical and material properties, in standard and non-standard beam sections.	Application of knowledge
	3	Size shafts for given torque loadings by calculating twisting properties and shear	Practical
		stresses.	Application of knowledge