Access to H.E. National Programme Unit



Unit Title:	Dynamics and Statics					
Graded GA33PHY11 Unit Code:		Ungraded Unit Code:	UA33PHY11			
Pathway(s):	thway(s): Science and Engineering					
	Construction and the Built Environment					
Module(s):	Physics					
Level:	3	Credit Value:	3			
Valid from:	31 st July 2021	Valid to:	31 st July 2026			

The following QAA grade descriptors must be applied if you are delivering the graded version of this unit:

1	Understanding of the subject
2	Application of knowledge
3	Application of skill
7	Quality

LEARNING OUTCOMES		ASSESSMENT CRITERIA		
The learner will:		The learner can:		
1.	Understand the nature of vector quantities	1.1	Distinguish between scalar and vector quantities	
		1.2	Find the resultant of two coplanar vectors by diagram and calculation	
		1.3	Resolve vectors into components in two dimensions	
		1.4	Solve problems for systems involving three coplanar forces to determine whether the forces are in equilibrium	
2.	Understand motion involving uniform acceleration	2.1	Use the equations of motion to solve problems involving uniform acceleration	
		2.2	Solve problems for projectiles by considering vertical motion and horizontal motion independently	

Access to H.E. National Programme Unit



3.	Understand and apply the principle of moments		Define the terms 'moment', 'centre of mass' and 'couple'
		3.2	State the principle of moments and use it to solve problems for simple balanced systems
		3.3	Use experimental methods to find the centre of mass of regular laminas
4.	Use momentum considerations to solve problems	4.1	Define linear momentum
		4.2	State the law of conversation of linear momentum and solve problems involving conservation of linear momentum
5.	Understand Newton's Laws of motion	5.1	State Newton's laws of motion
		5.2	Apply Newton's laws of motion to solve problems
6.	Understand the relationship between	6.1	Define impulse
	impulse and momentum		Solve problems involving impulse and momentum