

COURSE LEARNING OUTCOMES (C	LO	s)				
Faculty	1	General Foundation				
Program	 	Program				
Program	ļ	Mathematics				
Notional hours of learning (direct contact time + other independent activities/study time)	5 h	5 hours per week				
1. General Course Information						
1.1. Course Title: Pure Mathematics						
1.2. Course Code: SET 3						
1.3. Course Level: GFP						
1.4. Course Credit Units: NA						
1.5 Course Learning Outcomes Mapping with Program Learning Outcome	es					
Course Learning Outcomes	Program Learning Outcomes					
Upon completion of the course, students are expected to be able to:	1	2	3	4	5	6
A. Knowledge and Understanding		- L			L	L
A.1. Use coordinate plane to solve algebraic and geometric problems and understand geometric concepts such as equation of a line, perpendicular, parallel, and tangent lines.			✓			✓
A.2. Determine the geometric concept of the equation of a circle.			✓			✓
A.3. Determine the inverse relationship between exponents and logarithms.			✓			
A.4. Use the inverse relationship between exponents and logarithms relationship to solve related problems.			✓			
A.5. Solve exponential and logarithmic equations.			✓			✓
A.6. Determine the basic concepts of descriptive statistics, mean, median, and mode.			✓			√
A.7. Summarize data into tables and simple graphs (bar charts, histograms, and pie charts).			√			✓
A.8. Determine the basic probability concepts.			✓			✓
A.9. Compute the probability of simple events using tree diagrams and formulas for permutations and combinations			√			✓
A.10. Solve quadratic equations.	<u> </u>		✓	 		√
A.11. Determine the definition of the different types of angles.			✓	 		√
A.12. Measure angles in degrees and radians.	<u> </u>	ļ	√			√
	<u> </u>		L	<u> </u>	L	



A.13. Determine the equation of the trigonometric and prove the trigonometric identities	✓	√
A.14. Use the law of sines and cosines to solve a triangle.	✓	1
A.15. Determine the definition of a function and its graph.	~	✓
A.16. Describe analytically the trigonometric and circular functions.	✓	1
B. Cognitive/Intellectual Skills	LL	

B.1. Use the three types of symmetry of an equation to sketch its graph.		✓		√
C. Practical Skills	 		 	
C.1. Use the law of sines and cosines to solve real-life problems.		✓		✓