

COURSE INFORMATION

Faculty

General Foundation Programme

Program

Mathematics

1. General Course Information

1.1. Course Title: **Applied Mathematics**

1.2. Course Code: **SET 2**

1.3. Course Level: **GFP**

1.4. Course Credit Units: **NA**

2. Course Learning Outcomes

2.1. Course Learning Outcomes mapping with Program Learning Outcomes

Course Learning Outcomes

Program Learning Outcomes

Upon completion of the course, students are expected to be able to:

1	1	1	2	2	2	2	2	2	2	2	2	2	2
7	8	9	0	1	2	3	4	5	6	7	8	9	

A. Knowledge and Understanding

Course Learning Outcomes	1	1	1	2	2	2	2	2	2	2	2	2	2
	7	8	9	0	1	2	3	4	5	6	7	8	9
A.1. Use coordinate plane to solve algebraic and geometric problem and understand geometric concepts such as equation of a line, perpendicular, parallel, and tangent lines.	✓												
A.2. Determine the geometric concept of 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, histogram, and pie chart).					✓								
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 and inequalities.							✓						

