



# Course Descriptions

2019 - 2020

Semester [2]

[Precalculus for Business]

Mathayom [4]



**EIP Mathayom Course Outline  
Second Semester 2019/20**

**Subject: Precalculus for Business**

**Grade: Mathayom 4**

**Periods: 4**

**Department: Mathematics**

**Course Code: MA31226**

**Credit: 1.5**

**Course Description:**

**Assigned Text: Precalculus, Glencoe McGraw-Hill**

Students in Mathayom 4 Additional course will study mathematics beyond the basic MOE requirements and focus on areas applicable to the business track.

Students will begin the additional course by reviewing the concepts of functions and the properties of functions before beginning work on power, polynomial and rational functions. The student will also learn to identify different types of graph transformations and how to relate these to the changes in the functions

To finish the third quarter students will extend their understanding of functions with the remainder theorem and the zeros of polynomial functions.

In the fourth quarter students will study Exponential Functions and Logarithmic Functions.

Where possible students will be exposed to business related problems in line with their track.

Their progress will be monitored by a combination of formative and summative assessments for each unit and semester will end with a final exam on all material covered during the semester.

**Course Objectives:**

1. To provide a solid introduction to mathematical theory.
2. To develop analytical and critical thinking skills through investigative work.
3. To develop Information Technology skills related to mathematical topics.
4. To develop practical skills for solving a wide variety of mathematical problems.
5. To provide the students with useful estimation and mental calculation skills.
6. To provide the students with a number of problem solving techniques that can be applied to mathematics and other intellectual pursuits.



**EIP Mathayom Course Outline  
Second Semester 2019/20**

**Quarter 3**

**Precalculus, Glencoe McGraw-Hill**

**Unit 1 – Chapter 2: Power, Polynomial and Rational Functions**

- 2.1 Power and Radical Functions
- 2.2 Polynomial Functions

**Unit 2 – Chapter 2: Power, Polynomial and Rational Functions**

- 2.3 The remainder and Factor Theorems
- 2.4 Zero's of Polynomial Functions

**Quarter 4**

**Precalculus, Glencoe McGraw-Hill**

**Unit 3 – Chapter 3: Exponential and Logarithmic Functions**

- 3.3 Properties of Logarithms
- 3.4 Exponential and Logarithmic Equations

**Unit 4 – Chapter 10: Sequences and Series**

- 10.3 Geometric Series and Sequences
- 10.5 The Binomial Theorem



**EIP Mathayom Evaluation and Grading  
Second Semester 2019/20**

**Breakdown of Grades**

<b>Criteria</b>	<b>3<sup>rd</sup> Quarter</b>	<b>4<sup>nd</sup> Quarter</b>	<b>Total</b>
<b>Overall</b>			
<b>Behavior/participation</b>	5%	5%	10%
<b>Homework</b>	5%	5%	10%
<b>Homework (LMS)</b>	10%	10%	20%
<b>Tests/Quizzes</b>	20%	20%	40%
<b>Final Exam</b>		20%	20%
<b>Total</b>	40%	60%	100%