

Course Syllabus (Mid – term – Semester 1)**Learning Group: Mathematics****Subject code****Subject: Math****Year Level: 12****Total: 1.0 credit**

No.	Topics	Contents	Objectives	Reference
1	Tangents, normal and rates of change	1.1 Introduction to tangents, normal and rates of change 1.2 Tangent to a function at a particular point 1.3 The normal of a curve at a particular point 1.4 Applications of tangent and normal in problem solving 1.5 Increasing and decreasing functions 1.6 Rates of change 1.7 Connected rates of change 1.8 Applications of rates of change in problem solving	<ul style="list-style-type: none">• By the end of this chapter, students should be able to<ul style="list-style-type: none">➤ Explain what tangents, normal and rates of change are➤ Write a function of a tangent to a curve at a particular point➤ Write a function of a normal of a curve at a specific point➤ Solve problems about tangent and normal correctly➤ Identify what increasing and decreasing functions are➤ Understand what rate of change is and how to find it➤ Use connected rates of change in problem solving➤ Apply the knowledge of rates of change in problem solving properly	

Course Syllabus (Final – Semester 1)

Learning Group: Science

Year Level: 12

Subject code

Total: 1.0 credit

Subject: SCIENCE

Chapter/Unit	Topics	Contents	Objectives	Reference
1	Plate Tectonics	1.1 Inside the Earth: Layers of the Earth Crust and Lithosphere Mantle Core 1.2 Continental Drift Theory Evidence Magnetic Polarity Evidence 1.3 Theory of Plate Tectonics	<ul style="list-style-type: none"> • By the end of this chapter, students should be able to describe, discuss and explain: <ul style="list-style-type: none"> ➤ Inside the Earth: Layers of the Earth ➤ Crust and Lithosphere ➤ Mantle Core ➤ Continental Drift ➤ Theory ➤ Evidence ➤ Magnetic Polarity Evidence ➤ Theory of Plate Tectonics 	Earth Science Module Page 197 – 215
2	Earthquakes	2.1 Stress in Earth’s Crust 2.2 Nature of Earthquakes 2.3 Measuring magnitude	<ul style="list-style-type: none"> • By the end of this chapter, students should be able to describe, discuss and explain: <ul style="list-style-type: none"> ➤ Stress in Earth’s Crust ➤ Nature of Earthquakes ➤ Measuring magnitude 	Page 33-63
3.	Volcanoes	3.1 How volcanoes form 3.2 Types of Eruptions 3.3 Types of volcanoes	<ul style="list-style-type: none"> • By the end of this chapter, students should be able to describe, discuss and explain: <ul style="list-style-type: none"> ➤ How volcanoes form ➤ Types of Eruptions ➤ Types of volcanoes 	Page 65-81
4	Astronomy	4.1 The Celestial Sphere 4.2 The Solar System	<ul style="list-style-type: none"> • By the end of this chapter, students should be able to <ul style="list-style-type: none"> ➤ describe, discuss and explain “The Celestial Sphere” ➤ The Solar System 	Astronomy Module Page 35-70

Course Syllabus (Final – Semester 1)**Learning Group: Social****Year Level: 12****Subject code****Total: 1.0 credit****Subject: Economics**

Chapter/Unit	Topics	Contents	Objectives	Reference
3	Changes in Demand and Supply	3.1 Change in quantity demanded and change in demand 3.2 Factors affecting demand 3.3 Change in quantity supplied and change in supply 3.4 Factors affecting supply 3.5 Effects of changes in demand and / or supply 3.5.1 Concept Map 3.5.2 Revision	<ul style="list-style-type: none">• At the end of the lesson the students should be able to:<ul style="list-style-type: none">➤ Gain perspective on historical development of Agriculture Economy.➤ Identify range of systems.➤ Understand why market economy is most prevalent	Page 52 – 85