Course Syllabus (Final – term – Semester 2)

Learning Group: <u>Mathematics</u> Year Level: <u>12</u>

Subject code Total: <u>1.0</u> credit

Subject: Math

No.	Topics	Contents	Objectives	Reference
1	Applications of integration	 1.1 Introduction to integration 1.2 Indefinite integration 1.3 Definite integration 1.4 Integration of basic functions 1.5 Integration of trigonometric functions 1 1.6 Integration of trigonometric functions 2 1.7 Integration of exponential functions 1.8 Integration of logarithmic functions 	 By the end of this chapter, students should be able to Discuss on the usefulness of integration in solving problems satisfactorily Identify steps of finding an area using integration Calculate an area between a curve and the x-axis correctly Calculate an area between a curve and the y-axis correctly Calculate an area between a curve and a line which is in the form of f(x) Calculate an area of a region bounded by a curve y = f(x) and a line y = mx + c where m≠ 0 Use their knowledge on the test appropriately 	

Course Syllabus (Final – Semester 2) Subject code Total: <u>1.0</u> credit

Subject: <u>Science</u>

Chapter/ Unit	Topics	Contents	Objectives	Reference
4	The Structure of the Atom	 4.1 Historical Development of Atomic Models 4.2 Isotopes and their importance 4.3 Radioactive Decay 4.4 Periodic table of Elements 	 By the end of this chapter, students should be able to describe, explain the: Historical Development of Atomic Models Isotopes and their importance Electronic Structure of the Atom 	Pages 17-28
5	Chemical Bonding Fractional Distillation of Crude Oil	 5.1 Relative Atomic Mass 5.2 Relative Molecular Mass 5.3 The Mole and Number of Particles 5.4 the Mole and the Mass of a Substance 5.5 Formation of Compounds 5.6 Ionic Bonds 5.7 Covalent Bonds 5.8 Properties of Ionic and Covalent Bonds 	 By the end of this chapter, students should be able to describe, explain the: Relative Atomic Mass Relative Molecular Mass The Mole and Number of Particles The Mole and the Mass of a Substance Chemical Formula of Substance Formation of Compounds Ionic Bonds Covalent Bonds Properties of Ionic and Covalent Bonds 	Pages 29-45 Pages 112-146

Learning Group: <u>Science</u> Year Level: <u>12</u>

Course Syllabus (Final – term – Semester 2)

Learning Group: <u>Social</u> Year Level: <u>12</u>

Subject code Total: <u>1.0</u> credit

Subject: Economics

Chapter/ Unit	Topics	Contents	Objectives	Reference
5	Market Intervention	 5.1 Price Intervention 5.2 Quantity intervention – Quota 5.3 Sales Tax 5.4 Per-Unit Subsidy Concept Map Revision 	 By the end of this chapter, students should be able to Understand substitution effect of goods and services demand. Understand the linkage in demand for related goods and ability to predict results Analyze sine qua non of demand forecasting. Discuss the most important factors in decision to supply goods and services. Explain the factors of production by category. Understand the aspects of process of production and profitability that have short and long-term effects on quantity supplied. 	Page 40 – 72