

Course Syllabus (Midterm-Semester 2/2017)

Learning Group: Language

Subject Code:

Subject: English

Year Level: 12

Total: 2 periods / week

Credit: 1.0

Week	Period	Topic	Contents	Objectives: The students should be able to...
1	1-2	Class introduction.	Students write an imaginary story about their holiday.	Students should be able to speak and write to describe their own feelings and opinions about various matters, activities, experiences and news/incidents with proper reasons.
2	3-4	Oliver Twist Ch 20-21	The novel Oliver Twist and its place in British Culture is continued to be explored.	Students will be able to understanding and interpret what has been heard and read.
3	5-6	Oliver Twist Ch 22-23	The societal changes due to the Industrial Revolution are explained alongside the moral outlook of Victorian England.	Students will be confronted with the harsh reality of the Industrial Revolution and the hell of child Labour and Work House life.
4	7-8	Oliver Twist Ch 24-25	Vocabulary introduced and explained. Chapters read and interpreted. Chapter questions explained and answered.	Students will begin to see how novels can be used to reflect on society, its morals, laws and inequalities.
5	9-10	Oliver Twist Ch 26	Vocabulary introduced and explained. Chapters read and interpreted. Chapter questions explained and answered.	Students will be made to confront their own sense of moral outlook and challenges within their own society.
6	11-12	Oliver Twist Ch 27-28	Vocabulary introduced and explained. Chapters read and interpreted. Chapter questions explained and answered.	Students will be able to reflect on different historical periods and track the evolution of the modern age.
7	13-14	Oliver Twist Ch 29	Vocabulary introduced and explained. Chapters read and interpreted. Chapter questions explained and answered.	Students should understand that challenges facing the world today are often not new and that we can learn from history, solutions for today's problems.

8	15-16	Oliver Twist Ch 30	Vocabulary introduced and explained. Chapters read and interpreted. Chapter questions explained and answered.	Students will be confronted with Victorian opinions about class, morality, crime and punishment, the law and the role of women in the world.
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Course Syllabus (Semester 2/2017)

Learning Group: Math

Subject Code: MA 33102

Subject: Math

Year Level: 12

Total: 2 periods / week

Credit: 1.0

Week	Period	Topic	Contents	Objectives: The students should be able to...
1	1-2	Integration	Introduction to integration	Explain what integration is and how it is useful
2	3-4	Integration	Indefinite integration	Identify what indefinite integration is like
3	5-6	Integration	Definite integration	Identify what definite integration is like
4	7-8	Integration	Integration of basic functions	Perform integration of basic functions
5	9-10	Integration	Integration of trigonometric functions 1	Find the integral of basic trig functions in terms of $\sin(ax+b)$ , $\cos(ax + b)$ , etc
6	11-12	Integration	Integration of trigonometric functions 2	Figure out the integral of advanced trig functions
7	13-14	Integration	Integration of exponential functions	Perform integration of exponential functions
8	15-16	Integration	Integration of logarithmic functions	Perform integration of log functions

Week	Period	Topic	Contents	Objectives: The students should be able to...
1	1-2	Applications of integration	Introduction to applications of integration	Discuss on the usefulness of integration in solving problems satisfactorily
2	3-4	Applications of integration	Finding an area using integration	Identify steps of finding an area using integration
3	5-6	Applications of integration	Area between a curve and the x-axis	Calculate an area between a curve and the x-axis correctly
4	7-8	Applications of integration	Area between a curve and the y-axis	Calculate an area between a curve and the y-axis correctly
5	9-10	Applications of integration	Area between a curve and a line in the form of $f(x)$	Calculate an area between a curve and a line which is in the form of $f(x)$
6	11-12	Applications of integration	Area between a curve and a line in the form of $f(y)$	Calculate an area between a curve and a line which is in the form of $f(y)$
7	13-14	Applications of integration	Area of a region bounded by a curve $y = f(x)$ and a line $y = mx + c$ ; $m \neq 0$	Calculate an area of a region bounded by a curve $y = f(x)$ and a line $y = mx + c$ where $m \neq 0$
8	15-16	Applications of integration	End of chapter test	Use their knowledge on the test appropriately

Course Syllabus (Semester 2/2017-2018)

Learning Group: Science

Subject Code: SC 33102

Subject: Science

Year Level: 12

Total: 2 periods / week

Credit: 1.0

Week	Period	Topic	Contents	Objectives: The students should be able to...
1	1-2	Introduction to Ecology and Malaria	Ecology as a field of biology: general principles of ecology: ecosystem, biotic and abiotic factors, interrelationship among organisms	Explain, describe: ecology and its major principles: ecosystem, biotic and abiotic factors, interrelationship among organisms
2	3-4	Interactions: positive and negative	<ol style="list-style-type: none"> <li>1. Positive interactions: Mutualism, commensalism, protocooperation</li> <li>2. Negative interactions: Ammensalism, Parasitism, Predation, cannibalism, competition</li> </ol>	Differentiate, elucidate: <ol style="list-style-type: none"> <li>1. Positive interactions: Mutualism, commensalism, protocooperation</li> <li>2. Negative interactions: Ammensalism, Parasitism, Predation, cannibalism, competition</li> </ol>
3	5-6	Dynamic Equilibrium	Ecological balance has been defined by various online dictionaries as "a state of dynamic equilibrium within a community of organisms in which genetic, species and ecosystem diversity remain relatively stable, subject to gradual changes through natural succession."	Explain and interpret a graph showing dynamic equilibrium between two different species.

4	7-8	Layers of the Tropical Rainforest and Ocean zones	<p>1. Layers of the tropical rainforest:</p> <p>Emergent Layer. These giant trees thrust above the dense canopy layer and have huge mushroom-shaped crowns.</p> <p>Canopy Layer. The broad, irregular crowns of these trees form a tight, continuous canopy 60 to 90 feet above the ground.</p> <p>Understory.</p> <p>Forest Floor.</p> <p>2. Ocean Zones: The oceanic zone is subdivided into the epipelagic, mesopelagic, and bathypelagic zones. The epipelagic (euphotic) zone, also called the sunlit zone, receives enough sunlight to support photosynthesis. The temperatures in this zone range anywhere from 40 to -3 °C (104 to 27 °F)</p>	Describe, explain the layers of a tropical rainforest and explain the abiotic and biotic factors present.
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5	9-10	Terrestrial Biomes	Regions of similar climate and dominant plant types are called biomes. This chapter describes some of the major terrestrial biomes in the world; tropical forests, savannas, deserts, temperate grasslands, temperate deciduous forests, Mediterranean scrub, coniferous forests, and tundra	Explain, describe and identify the major terrestrial biomes. Summarize the essential features of each major biome.
6	11-12	Terrestrial Biomes	Regions of similar climate and dominant plant types are called biomes. This chapter describes some of the major terrestrial biomes in the world; tropical forests, savannas, deserts, temperate grasslands, temperate deciduous forests, Mediterranean scrub, coniferous forests, and tundra	Explain, describe and identify the major terrestrial biomes. Summarize the essential features of each major biome.
<b>M I D T E R M E X A M</b>				
7	13-14	Ecological Succession	Ecological succession is the gradual process by which ecosystems change and develop over time. Nothing remains the same and habitats are	Describe and explain the process of ecological succession in a pond ecosystem and forest.

			constantly changing. There are two main types of succession, primary and secondary.	
8	15-16	Fossil Fuels	Fossil fuel is a general term for buried combustible geologic deposits of organic materials, formed from decayed plants and animals that have been converted to crude oil, coal, natural gas, or heavy oils by exposure to heat and pressure in the earth's crust over hundreds of millions of years.	Describe and explain how fossil fuels are formed, explain the ecological issues on the use of fossil fuels
9	17-18	Renewable Energy	Renewable energy is energy that is collected from renewable resources, which are naturally replenished on a human timescale, such as sunlight, wind, rain, tides, waves, and geothermal heat.	Describe and explain the impact of renewable energy on the environment
10	19-20	Writing task on Fossil Fuel	Composing a Scientific essay explaining a process based from a diagram. Use of passive voice and EAP terms in an academic style composition.	Write an essay explaining the process of crude oil formation

11	21-22	Describing and Interpreting graph	Explaining/interpreting a graph following the rules of academic writing and composition	Composing a written interpretation of graphs following the rules of academic writing
12		F I N A L E X A M		

Course Syllabus (Midterm-Semester 2/2017)

Learning Group: Social Studies

Subject Code:

Subject: Social Studies

Year Level: 12

Total: 2 periods / week

Credit: 1.0

Week	Period	Topic	Contents	Objectives: The students should be able to...
1	1-2	Factors affecting Supply	<ul style="list-style-type: none"> <li>- Cost of production of good or service</li> <li>- Labor, Plant &amp; Equipment and Capital</li> <li>- Technology</li> <li>- Competition</li> </ul>	<ul style="list-style-type: none"> <li>• Discuss the most important factors in decision to supply goods and services.</li> <li>• Explain the factors of production by category.</li> <li>• Understand the aspects of process of production and profitability that have short and long-term effects on quantity supplied.</li> </ul>
2	3-4	Price Elasticity of Demand and Supply	<ul style="list-style-type: none"> <li>- What is meant by the price elasticity of demand?</li> <li>- How is the price elasticity of demand calculated?</li> <li>- How is total revenue affected by the price elasticity of demand and price change?</li> </ul>	<ul style="list-style-type: none"> <li>• Understand and can apply the different factors of price elasticity in examples of demand and supply</li> </ul>
3	5-6	Price Elasticity of Demand and Supply	<ul style="list-style-type: none"> <li>- What factors affect the price elasticity of demand?</li> </ul>	<ul style="list-style-type: none"> <li>• Can explain how to calculate the price elasticity in demand and supply.</li> </ul>

			<ul style="list-style-type: none"> <li>- What is meant by the price elasticity of supply?</li> <li>- How is the price elasticity of supply calculated?</li> </ul>	
4	7-8	Market Intervention	<ul style="list-style-type: none"> <li>- What does market intervention include?</li> <li>- What are meant by price ceiling, price floor, quota and their conditions and control mechanism?</li> </ul>	<ul style="list-style-type: none"> <li>● To understand what an intervention in the market is.</li> <li>● To explain what a price ceiling, price floor, quota and the conditions are, which control</li> </ul>
5	9-10	Market Intervention	<ul style="list-style-type: none"> <li>- What are meant by per-unit sales tax and per-unit subsidy and what are the effects of tax and subsidy on the market</li> </ul>	<ul style="list-style-type: none"> <li>● To know what per-unit sales tax and per-unit subsidy tax has on the market</li> </ul>
6	11-12	Law of Demand	<ul style="list-style-type: none"> <li>- Want, Demand and quantity demanded</li> </ul>	<ul style="list-style-type: none"> <li>● Explain and explain why the concept of demand is central to modern economic and, therefore, political life.</li> </ul>
7	13-14	Law of Demand	<ul style="list-style-type: none"> <li>- Individual and market Demand</li> <li>- Law of Demand</li> </ul>	<ul style="list-style-type: none"> <li>● Identify the key basis to understand and predict the demand for goods and services Recognize the ubiquity as well as the limitations of the Law of Demand</li> </ul>

8	15-16	Revision Midterm Exam
9	17-18	Midterm Exam Semester 1