

Tutorial Letter 101/3/2018

Environmental Economics ECS2606

Semesters 1 and 2

Department of Economics

IMPORTANT INFORMATION:

This tutorial letter contains the important information about this module. Please read it immediately.

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Dear Student

1 INTRODUCTION

Welcome to Environmental Economics.

The Environmental Economics team welcomes you to this module. We hope that it will interest you. As a team, to make a success of it, we are prepared to go extra mile to help you. To meet yourself halfway, it is utmost that you start immediately and submit your assignments timeously.

In this module, we use a tutorial letter to communicate with you about assignments, due dates, feedback to assignments and examination guidelines. The Department of Despatch will post the following study material to you soon after registration:

- Tutorial Letter 101
- Study Guide

Tutorial Letter 101 contains important information about the scheme of work, the prescribed textbooks, assignments, due dates and study tips.

You will not receive Tutorial Letter 201 with the study material. It will be posted to you few weeks after the assignments due dates. Tutorial Letter 201 provides the solutions to assignments and it also give examination guidelines. You can view and download the material on *myUnisa* at <http://my.unisa.ac.za>.under official and additional resources

It is your responsibility as a student to:

- read your Tutorial Letters as soon as you receive them;
- plan your work accordingly through the use of study timetable;
- submit assignments on/ before due dates;
- know the examination venue and dates and time;
- develop a deeper understanding of the concepts and principles that you are studying;
- study the learning outcomes of each module;
- reflect on the subject matter and discuss it with your fellow colleagues, study mates, specialists etc.;
- assess your progress on continuous basis using the activities given at the end of each learning unit in the Study Guide and at the end of each chapter in your prescribed textbook;
- apply your knowledge in practice.

Our responsibility as lecturers is to:

- ensure that the learning material is in line with the needs of industry and commerce by consulting regularly with the profession;
- afford you an opportunity to develop competencies and skills at a certain level and to support you when you require assistance;
- provide you with clear indications of what we expect from you in terms of assessment;
- give you timeous feedback on assignments.

University of South Africa is a distance learning institution. Its way of operating is not the same as that of residential or contact institutions such as University of Johannesburg. Try to learn as much as possible about the services that the institution can offer you on the booklet *myStudies at Unisa*: <http://www.unisa.ac.za>

2 PURPOSE AND OUTCOMES

2.1 Purpose

Environmental Economics is a wonderful field that attempts to understand the relationship between humans and natural environment. Students who complete this module will acquire a better understanding of the impact of human decisions and actions in the environment. Secondly, how human values and institutions shape our demands for improvement in the quality of that environment and how to design effective public policies to bring about these improvements.

2.2 Outcomes

After completing this module, you should be able to:

- use your functional knowledge of the subject Environmental Economics.
- apply the analytical tool in dealing with efficiency, trade-offs, costs and benefit.
- analyse the connection between environmental quality and the economic behaviour.
- discuss relationship between the economy and environment .
- develop a set of analytical tools that can be used to focus on issues of environmental quality.
- discuss the methods available to estimate benefits and costs of environmental policy decisions.
- examine in depth the public policies that have been put in place to deal with environmental problems.

- examine several global environmental problems namely: stratospheric ozone, depletion and the greenhouse effect.

Learning Unit outcomes are also found at the beginning of each Learning Unit in the Study Guide.

Section A	This section introduces you to Environmental Economics.	
	Learning Unit 1	What is Environmental Economics?
	Learning Unit 2	The economy and the environment.
Section B	This section discusses the tools to analyse the principles of demand and cost and the elements of economic efficiency both in market and non-market activities.	
	Learning Unit 3	Benefits and costs, supply and demand
	Learning Unit 4	Economic efficiency and markets
	Learning Unit 5	The economics of environmental quality
Section C	This section focuses on environmental analysis. It looks closely at the techniques developed by environmental economists to answer the fundamental value questions that inspire environmental decision-making. The special focus is on benefit-cost analysis.	
	Learning Unit 6	Frameworks of analysis
	Learning Unit 7	Benefit-cost analysis: benefits
	Learning Unit 8	Benefit-cost analysis: costs
Section D	This section examines the principles of environmental design, starting with the criteria to evaluate policies, followed by the main approaches to environmental quality management.	
	Learning Unit 9	Criteria for evaluating environmental policies
	Learning Unit 10	Decentralized policies: liability laws, property rights and involuntary action
	Learning Unit 11	Command-and-control strategies: the case of standards
	Learning Unit 12	Incentive-based strategies: emission charges and subsidies
	Learning Unit 13	Incentive-based strategies: transferable discharge permits
Section E	This section focuses on environmental issues at international and local levels. It further examines international issues such as environmental policy developments in other countries, global environmental issues, including global warming and the economics of international environmental agreements.	
	Learning Unit 14	The global environment
	Learning Unit 15	Economic development and the environment
	Learning Unit 16	International environmental agreements

3 LECTURER(S) AND CONTACT DETAILS

3.1 Lecturer(s)

As the lecturers responsible for this module, we are available to assist you with enquiries relating to the **content**. Please have your study material with you when you contact us. You may contact us as follows:

You may contact us as follows:

LECTURER'S NAME	E-mail ADDRESS	TELEPHONE NUMBERS
Dr I Maloma	malomi@unisa.ac.za	(012) 433-4646
Ms. N.W. Gamede	gamednw@unisa.ac.za	011 471 3789

3.2 Department

The Department of Economics can be contacted as follows:

Telephone number: 012 433 4686

Address: Club One Building
Corner of Dely & Pinaster Streets
Hazelwood
Pretoria
0003

3.3 University

Follow the instructions in the brochure *myStudies@Unisa* if you wish to contact the university. Remember to have your student number available whenever you contact the university.

Alternatively, send an SMS to 32695; you will receive an auto-response SMS with various options to choose from.

You can also SMS your query directly to:

- **43584** for assignment queries
- **43579** for study material
- **43584** for examination queries
- **31954** for student account queries
- **43582** for assistance with *myUnisa* and *myLife*

- **43578** for application and registration

You can also send an e-mail to info@unisa.ac.za with your enquiry. Remember to put your student number in the subject line. Include your initials, surname and a short description of your enquiry in the body of the e-mail.

Furthermore, you can also send you enquiry directly to the following addresses:

- assign@unisa.ac.za for assignments queries
- despatch@unisa.ac.za for study material queries
- exams@unisa.ac.za for exam queries
- finan@unisa.ac.za for account queries
- Study-info@unisa.ac.za for application and registration queries
- myLifeHelp@unisa.ac.za for assistance with *myLife* e-mail accounts

You also welcome to contact the university via any of the following three options:

- Mobi: mobi@unisa.ac.za
- Web: www.unisa.ac.za
- Fax: **+27 (0)12 429 4150**

4 RESOURCES

4.1 Prescribed book

The prescribed textbook is:

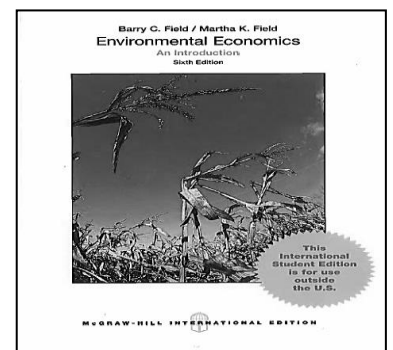
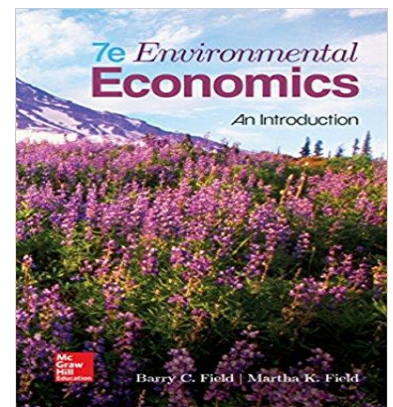
Environmental Economics: An Introduction. 7th ed.
by Barry C. Field and Martha K. Field.
Published by McGraw-Hill.

You may also use:

Environmental Economics: An Introduction. 6th ed.
by Barry C. Field and Martha K. Field.
Published by McGraw-Hill.

You may also use:

Environmental Economics: An Introduction. 5th ed. by
Barry C. Field and Martha K. Field.
Published by McGraw-Hill.



However, the referral page numbers in the Study Guide to your prescribed textbook are in accordance with the 7th edition.

Please refer to the list of official booksellers and their addresses listed in the *myStudies@Unisa* brochure. If you have difficulty obtaining the prescribed book from booksellers, please contact the Prescribed Book Section at **012 429 4152** or e-mail vospresc@unisa.ac.za.

4.2 Recommended books

There are no recommended textbooks for this module. However, for more insight on the topics discussed in this module, read other Environmental Textbooks that you may find in the library.

4.3 Electronic reserves (e-reserves)

There are no e-reserves for this module

4.4 Library services and resources information

For brief information, go to www.unisa.ac.za/brochures/studies

For detailed information, go to the Unisa website at <http://www.unisa.ac.za/> and click on **Library**.

For research support and services of personal librarians, go to <http://www.unisa.ac.za/Default.asp?Cmd=ViewContent&ContentID=7102>.

The library has compiled a number of library guides:

- finding recommended reading in the print collection and e-reserves – <http://libguides.unisa.ac.za/request/undergrad>
- requesting material – <http://libguides.unisa.ac.za/request/request>
- postgraduate information services – <http://libguides.unisa.ac.za/request/postgrad>
- finding, obtaining and using library resources and tools to assist in doing research – http://libguides.unisa.ac.za/Research_Skills
- how to contact the library/finding us on social media/frequently asked questions – <http://libguides.unisa.ac.za/ask>

5 STUDENT SUPPORT SERVICES

5.1 Study Guide and Tutorial Letters

This tutorial letter contains important administrative information about this module. Furthermore, this tutorial letter contains the assignments that you need to complete during the semester. The Study Guide on the other hand covers the entire academic content of the module, refers you to the prescribed textbook by giving you the sections that you must study in order to prepare for assignments and examinations.

5.2 *myUnisa*

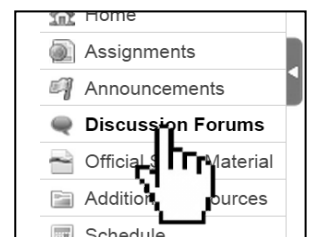
Go to Unisa website at <http://www.unisa.ac.za> and then click on the *myUnisa* orange block. This will take you to the *myUnisa* website. When you are on the *myUnisa* website, click on the **Claim UNISA Login** on the right-hand side of the screen. You will then be prompted to give your student number to claim your initial *myUnisa* details as well as your *myLife* login details.

You will see ECS 2606-18-S1 (or S2 in second semester) in the row of modules in on the top of the webpage. Remember to check in the “More Sites” tab as well if you cannot find the module, you require. Then click on the module you want to open.



5.2.1 Main module site

The main module site for ECS 2606 is where the lecturers for this module communicate with you. If you have a question, you are welcome to use the discussion forum. Please post your question under the appropriate topic on the discussion forum.



You can use *myUnisa* to study for this course. You can also get all your study material online on *myUnisa* (Study Guide and Tutorial Letters). You will notice that the contents of *myUnisa*, including what you find under Learning Units, are contained in the Study Guide, except the contents of links that have to be visited online, videos and other online resources, as well as the unfolding activities on the **Discussions forum**. Visit the website for ECS2606 on *myUnisa* as frequently as you can. Remember, apart from the computer laboratories at regional centres, there are also telecentres across South Africa where you can access the internet free of charge if you have a Unisa student card. Find details about these centres in the *myStudies@Unisa* brochure.

5.2.2 E-tutor site

You will have an e-tutor site named ECS2606-18-S1-1E where you can talk to your e-tutor and peers.

An e-tutor is a qualified and carefully chosen online tutor that will assist you with any academic questions about this module. Feel free to ask your e-tutor any question on the discussion forum on your e-tutor site. The most important role of the e-tutor is to help you with the learning activities found at the end of each Learning Unit and of each chapter in the prescribed textbook.

Unisa also offers tutor services to students at the various Unisa regional learning centres throughout the country. A tutorial is an organized session where students and tutor(s) meet regularly at a common venue at scheduled times to discuss course material. Students are advised to consult learning centres closest to them to enroll for tutorials. For more information on learning centres and tutorials, consult *myStudies@Unisa* brochure.

6 STUDY PLAN

In this module, the emphasis is on the development of your understanding about the manner in which human decisions affect the quality of environment, how human values and institutions shape our demands for improvement in the quality of the environment and how to design effective public policies to bring about these improvements. It is important to have a thorough understanding of the five different sections of the prescribed textbook in order to get a comprehensive picture of the relationship between the natural environment and the economy.

Work through each Learning Unit in the Study Guide together with the relevant chapter in the prescribed textbook. Make notes or summaries as you go along. At the end of each Learning Unit, work through the activities provided in the Study Guide to test your understanding of the content.

To help you to work on this module systematically, we have drawn a study program for you. The study program consists of guidelines indicating when you should at least have completed certain sections of the study material. The study program is based on the assumption that first-semester students will commence with their studies before or during the last week of January and second-semester students before or during the third week of July. In each semester, the period from the last day of registration to the start of the examination consists of only 15 weeks. It is therefore important that you start working as soon as possible.

Please note that study program is merely a guide aimed at assisting you to work through this module and to ensure that you maintain a steady pace regarding your studies. Included in your study program are assignment due dates. You are encouraged to develop your own study program.

First semester

Draw up your own mind map for each Learning Unit.

WEEK STUDY	WEEK BEGINS	TASKS (Refer to Study Guide)	STUDY HOURS ¹
1	05 – 09 Feb.	Learning Unit 1 & 2	6
2	12 – 16 Feb	Learning Unit 3 & 4	10
3	19 – 23 Feb	Learning Units 5 & 6. Start Assignment 01.	10
4	26 Feb. – 04 March	Learning Units 7 & 8	10
5	05 – 09 March	Complete assignment 01. This assignment is based on Learning Units 1-8. Submission due date: 12 March 2018	12
6	12 – 16 March	Learning Units 9 & 10	10
7	19 – 23 March	Learning Units 11 & 12	10
8	26 – 30 March	Learning Units 13 & 14 Start with assignment 02	10
9	02 – 06 April	Study Learning Units 15 & 16	6
10	09 – 13 April	Complete assignment 02. This assignment is based on Learning Units 9–16. Submission due date: 12 April 2018	12
11	16 – 20 April	Revision	12
12	23 – 27 April	Revision	12
	May - June	Examination period	
Total number of notional hours			120

Study hours refer to the minimum number of hours an average student should spend on each task.

Second semester

WEEK STUDY	WEEK BEGINS	TASKS (Refer to Study Guide)	STUDY HOURS ²
1	16 – 20 July.	Learning Units 1 & 2	6
2	23 – 27 July	Learning Units 3 & 4	10
3	30 July – 03 Aug.	Study Learning Units 5 & 6 Start with assignment 01	10
4	06 – 10 Aug.	Study Learning Units 7 & 8	10
5	13 – 17 Aug.	Complete assignment 01. This assignment is based on Learning Units 1-8. Submission due date: 17 August 2018	12
6	20 – 24 Aug.	Learning Units 9 & 10	10
7	27 – 31 Aug.	Learning Units 11 & 12	10
8	03 – 07 Sept.	Learning Units 13 & 14,	10
9	10 – 14 Sept.	Learning Units 15 & 16.	6
10	17 – 21 Sept.	Complete assignment 02. This assignment is based on Learning Units 9-16. Submission: due date 20 September 2018	12
11	24 – 28 Sept.	Revision	12
12	01 – 05 Oct.	Revision	12
	Oct. – Nov.	Examination Period	
Total number of notional hours			120

Study hours refer to the minimum number of hours an average students should spend on each task.

7 PRACTICAL WORK AND WORK-INTEGRATED LEARNING

There is no practical work for this module

8 ASSESSMENT

8.1 Assessment criteria

Students are assessed by means of formative assessment in the form of written assignments and summative assessment in a form of a formal two hour written examination. The examination takes place in May/June and October/November at specified time, date and at different examination centres. This means that your final mark is not only based on your examination mark, but also on your performance during the semester.

For admission to examination, you must submit Assignment 01. To maximize your chances of passing this module, it is strongly recommended that you submit both assignments.

Semester mark

The two assignments that you submit during the semester contribute towards your semester mark.

The examination mark

The percentage achieved in the examination is used in the calculation of your final mark.

Final mark

The assignments weight is 20% irrespective of whether you submitted one assignment or both and the examination's weight is 80%.

Your final mark is calculated as follows:

$$\begin{array}{|c|} \hline \text{Semester mark} \\ \hline \text{(out of 100) } \times 0.2 \\ \hline \end{array} + \begin{array}{|c|} \hline \text{Examination mark} \\ \hline \text{(out of 100 } \times 0.8) \\ \hline \end{array} = \begin{array}{|c|} \hline 100 \\ \hline \end{array}$$

Suppose your **semester mark** is 46% and you get 60% in the examination. Your **final mark** will be:

$$\begin{aligned}
 & (46 \times 0.2) + (60 \times 0.8) \\
 & = (46 \times 0, 2) + (60 \times 0, 8) \\
 & = 9, 2 + 48 \\
 & = 57, 4\% \qquad \text{Final Mark}
 \end{aligned}$$

Subminimum rule

Irrespective of the **semester mark** obtained, a subminimum of 40% must be obtained in the examination. In line with the Unisa assessment policy, your semester mark will **NOT** count if you receive **LESS** than 40% in the examination. In such an event, the mark you obtained in your examination will be your **final mark**. This means that, if your **semester mark** is 50% and your **examination mark** is 30%, your **final mark** will be 30%. Why? Because in your examination you got **LESS** than 40%.

For information regarding to examinations instructions, remarking and rechecking of examination scripts consult *myStudies@Unisa* brochure. Please note that the applications for, and the administration of re-marking of examination scripts is handled solely by the Examinations Department.

8.2 Assessment plan

Assignments serve as a tool to assist you to master the course material. As you do your assignments, doing research, discussing the work with fellow students or tutors you broaden your knowledge of the subject and in the process you learn the following: research, writing, interpersonal, time management and planning skills. This is a semester module, and it consists of two assignments are aimed at providing you with the opportunity to demonstrate your understanding of the theory as well as your ability to apply the concepts. These two assignments namely, 01 and 02 consists of short questions and essays type questions.

In assignment preparation, **avoid plagiarism**. Plagiarism is the act of taking words and ideas of others and passing them off as your own without acknowledgement. It is a form of theft, which involves dishonesty. In writing, your assignments acknowledge the sources that you have consulted. Read the university's Policy on Copyright Infringement and Plagiarism that is available on the Unisa website.

As students, you may work together when preparing assignments; however, each student is required to write and submit his or her own individual assignment in his/her own words. It is unacceptable for students to submit identical assignments on the basis that they have worked together. Such assignments will not be marked.

Feedback on assignments will be given to all students registered for this module in Tutorial Letters 201 and 202. Feedback on assignments form an important part of your learning and should help you to prepare for the examination. Your marked assignments with a marker's comments will also be returned to you. As soon as you receive the feedback, please check your answers against it

8.3 Assignment numbers

8.3.1 General assignment numbers

Label the assignments correctly.

8.3.2 Unique assignment numbers

In addition to the general assignment number (e.g. 01 or 02); each assignment has its own unique assignment number (e.g. 102717). Please fill in this unique assignment number on the cover page of the assignment in the space provided.

8.4 Assignment due dates

Since due dates are communicated well in advance, no late assignments will be considered. Enquiries about the receipt of assignments and marks should be directed to the Directorate of Student Assessment Administration not to the lecturers. Refer to *my Studies @ Unisa* brochure for more information.

Semester 1: assignment due dates

Assignment	Unique number	Due date	Learning units covered in assignment
01	843184	12 March 2018	Learning units 1 - 8
02	732214	12 April 2018	Learning units 9-16

Semester 2: assignment due dates

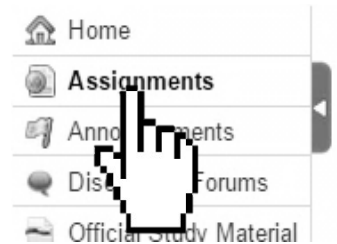
Assignment	Unique number	Due date	Learning units covered in assignment
01	643191	17 August 2018	Learning units 1-8
02	796034	20 September 2018	Learning units 9-16

8.5 Submission of assignments

Assignments may be delivered at the Unisa assignment boxes located countrywide or submitted online via *myUnisa*, be delivered at Pep Stores near you, or be posted via Post Offices. If you submit your assignment online, please ensure that it is in a pdf-format. Also, ensure that the file is not secured or locked/password protected and not in a zip-file. **Ensure that you keep a copy of your assignment.**

To submit an assignment via *myUnisa*:

- Log in with your student number and password
- Select your module
- Click on assignments in the menu on the left-hand side of the screen.
- Click on the assignment number you wish to submit.
- Follow the instructions on the screen.



Assignments should reach Pretoria campus on or before the due date. If you submit your assignment in the Unisa assignment boxes, you should do it at least two days before the due date. If you submit online, you can submit it until midnight on the due date; however make provision for delays as *myUnisa* system is often very busy on due dates.

8.6 Other assessment methods

The assignments and examinations are the only formative and summative assessment methods in this module.

8.7 The examination

The examinations consists of a summative assessment in the form of a formal two-hour written examination. This module is offered over a semester period of approximately 15 weeks. This means that if you are registered for the first semester you will write the examination in May/June 2018 and the supplementary examination will be written in October/November 2018. If you are registered for the second semester you will write the examination in October/November 2018 and the supplementary examination will be written in May/June 2019.

The format of the examination paper is as follows:

Section	Format of a question paper	Total marks (100)
A	Short Questions (maximum of 10 to 15 marks per question)	50
B	Essay type questions (25 marks per question). THREE questions will be asked in this section of which you will be required to answer any TWO .	50
Duration of the examination	2 hours	

9 FREQUENTLY ASKED QUESTIONS

Examples of questions asked	
Do I have to buy the prescribed book?	Yes, prescribed books are indicated in tutorial letter 101
Where can I get the prescribed book?	Prescribed books can be obtained from the University's official booksellers. If you have difficulty in obtaining the prescribed book from these booksellers, please contact the Prescribed Book Section at: 012 429-4152 or e-mail vospresc@unisa.ac.za
My study material has not arrived. Whom should I contact?	Contact Despatch Department whose contact details are provided in <i>myStudies@Unisa</i> brochure and also in section 3.3 of this tutorial letter.
Has Unisa received my assignment?	Contact Assignment Department whose contact details are provided in <i>myStudies@Unisa</i> brochure and also in section 3.3 of this tutorial letter.
Are there any discussion classes for this module this year?	Please note that there are no class discussions for this module. Class discussions have been replaced with E- tutoring
What is e-tutoring?	E-tutoring is an organized session where students and e-tutors interact regularly online through the myUnisa platform. It is also a social space where students and tutors can interact through threaded discussions or chat. The parties that is students/e-tutors and lecturers participate in the educational process by interacting through the myUnisa platform.
How can I join a study group?	Students are advised to consult learning centres closest to them to enroll for tutorials. For more information on learning centres and tutorials consult <i>myStudies@Unisa</i> brochure.
How do I qualify to write an examination?	For admission to examination you must submit assignment 01.
Did I pass? When will the examination results be released?	Contact the Examination Department whose contact details are provided in <i>myStudies@Unisa</i> brochure and also in section 3.3 of this tutorial letter.

The *myStudies @Unisa* brochure contains an A-Z guide of the most relevant study information.

10 The assignments

TECHNICAL ASPECTS OF ESSAY TYPE ASSIGNMENTS THAT NEED YOUR ATTENTION

In answering your assignments, pay attention to the manner in which you present your answers.

Your 25 marks assignment question should consist of the three main sections namely:

- The **introduction** is a short statement at the beginning of your assignment that shows how you understand the question and how you plan to answer it.
- The **Body** is the main part of your assignment. Here you state your main argument, provide details and examples and support your claims by stating the relevant facts.
- The **conclusion** is the last paragraph of your assignment. Here you show how all the points referred to in the body of the assignment have led to your conclusion.

Acknowledge all the sources that you have consulted in your assignment

A bibliography is a list of the sources that you have used in your research. You must acknowledge the author in your text and in your reference list.

Why should you compile a reference list?

- To be able to find your answers easily if you need to consult them again
- For your reader to check the accuracy of your research and follow up on the facts discussed in your assignment.

The list of sources that you have consulted should be in the following format:

- The author's name and initials
- Year of publication
- Title of the source (Italic)
- Place of publication
- Publisher

COMMON MISTAKES IN ANSWERING THE SHORT QUESTIONS AND ESSAY TYPE QUESTIONS

- Students have a tendency of copying directly from the study guide and the prescribed book without acknowledging the source.
- Students have a tendency of giving unstructured answers when answering essay type questions.

Guard against making these tendencies because you will lose marks.

ASSIGNMENT 01/2018 (First Semester)

Submission date	12 March 2018
Marks	100
Prescribed Book	Relevant sections according to the Study Guide
Study Guide	Learning Units 1 - 8
Unique number	843184

Answer all the following questions in Section A and section B

SECTION A

In answering the questions use short paragraphs.

- 1 Discuss the implications of the first and second law of thermodynamics for the processes of production and consumption in the economy. [10]
- 2 You want to clean up a lake where ten households live. Explain the problem of free riding given that you want to charge each household the same amount for cleaning the lake [10]
- 3 Explain the concept abatement functions and illustrate it by means of a graph. [10]
- 4 Briefly explain the risk analysis and in your answer include its three steps. [10]
- 5 Explain the equimarginal principle by supposing a factory has two plants, one with steeply increasing marginal costs and one with more slowly increasing marginal costs. [10]

SECTION B

1. Discuss the **THREE** different types of impact analysis [25]
2. Examine the revealed preference methods [25]

Please note the following:

- *No marks will be given to graphs photocopied directly from the textbook.*
- *Online assignments has to submitted in PDF format*
- *For online submission make sure the file is not password protected or in a zip-folder*

ASSIGNMENT 02/2017 (First semester)

Submission date	12 April 2018
Marks	100
Prescribed Textbook	Relevant sections according to the Study Guide
Study Guide	Learning Units 9 - 16
Unique number	732214

Answer all the following questions in Section A and Section B.

SECTION A

1. Distinguish between the **THREE** types of standards. [10]
2. When emission charges are put into effect, who ultimately ends up paying for them? Is this fair? [10]
3. Explain how a program of transferable discharge permit works to satisfy the equimarginal principle [10]
4. Briefly analyse the new global greenhouse climate agreement. [10]
5. Analyse the role of developed countries in helping the developing countries to deal with environmental problems [10]

SECTION B

- 1 Critically discuss the criteria for evaluating environmental policies [25]
- 2 Discuss in detail the different approaches to sustainable development. [25]

Please note the following:

- *No marks will be given to graphs photocopied directly from the textbook.*
- *Online assignments has to submitted in PDF format*
- *For online submission make sure the file is not password protected or in a zip-folder*

ASSIGNMENT 01/2017 (Second semester)

Submission date	17 August 2018
Marks	100
Prescribed Textbook	Relevant sections according to the Study Guide
Study guide	Learning Units 1 – 8
Unique number	643191

Answer all the following questions in Section A and Section B.

SECTION A

1. Discuss the possible environmental problems associated with economic growth. [10]
2. Explain the fundamental balance between producers, consumers and residuals. [10]
3. Use a graph to explain how technology improvement could decrease the total cost of production. [10]
4. Explain why, given the environmental context of Africa, with high population pressures on declining arable land, open-access resources could be a major problem. [10]
5. How is equimarginal principle applied to emission reductions? [10]

SECTION B

1. Suppose you are an Economist working as an environmental consultant. The Nylsvlei Nature Reserve, North of Pretoria, South Africa, is known for its extensive bird life and you are asked to place a value on this nature reserve. Which valuation method would you use and why? Also, indicate the shortcomings of the chosen method. [25]
2. Explain the **FOUR** basic steps in benefit-cost analysis, which aspect of benefit-cost analysis would you consider to be the most controversial? Give reasons for your answer. [25]

Please note the following:

- *No marks will be given to graphs photocopied directly from the textbook.*
- *Online assignments has to submitted in PDF format*
- *For online submission make sure the file is not password protected or in a zip-folder*

ASSIGNMENT 02/2017 (Second semester)

Submission date	20 September 2018
Marks	100
Prescribed Textbook	Relevant sections according to the Study Guide
Study guide	Learning Units 9-16
Unique number	796034

SECTION A

Answer all of the following questions.

1. Discuss the difference between subsidies and transfer payments. [10]
2. Define the different approaches to sustainable development. [15]
3. By means of a graph, discuss the concept standards [10]
4. Compare the emission charge approach with an emission standard approach. In which approach will the costs be the highest for a firm? [15]

SECTION B

- 1 Discuss the case of property rights [25]
- 2 Discuss the different criteria to evaluate environmental policies. [25]

Please note the following:

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11 IN CLOSING

Do not hesitate to contact us by e-mail if you are experiencing problems with the content of this tutorial letter or with any aspect of the module.

We wish you a fascinating and satisfying journey through the learning material and trust that you will complete the module successfully.

Please work hard and enjoy this module. We wish you success on your journey!

Regards

Dr Ismael Maloma

Ms. N.W. Gamede