Tutorial Letter 101/3/2018

Object-Oriented Analysis
ICT2622

Semesters 1 & 2

School of Computing

IMPORTANT INFORMATION

Please register on myUnisa, activate your myLife e-mail addresses and make sure that you have regular access to the myUnisa module website, ICT2622-2018-S1/S2, as well as your group website.

Note: This is an online module and therefore it is available on myUnisa. However, in order to support you in your learning process, you will also receive some study material in printed format.

BARCODE

Define tomorrow.

UNISA | university of south africa

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1   INTRODUCTION

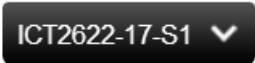Dear Student

Welcome to Object-Oriented Analysis.

This module provides the background that system analysts and programmers require, skills and values needed to understand the analysis and design of an information system using an object-oriented approach as well as techniques and methodologies for systems development.

You will be able to extend this knowledge into practical real-life system development environments. You will also be able to transform manual or computerized information systems into efficient labour saving computerized, accurate information systems.

Because this is a fully online module, you will need to use myUnisa to study and complete the learning activities for this course. Visit the website for ICT2622 on myUnisa frequently. The website for your module is ICT2622-18-S1 for the first semester class, and ICT2622-18-S2 for the second semester class.

1.1   Getting started …

Owing to the nature of this module, you can read about the module and find your study material online.

myUNISA | university of south africa	Go to the website here: https://my.unisa.ac.za/ and login with your <u>student number</u> and <u>password</u>
ICT2622-17-S1 ⌄	You will see ICT2622-18-S1 for semester 1 (or ICT2622-18-S2 for semester 2) in the row of modules in the blocks across the top of the webpage
More Sites ⌄⌄	Remember to also check in the **More Sites** tab if you cannot find it in the blocks across the top of the webpage

You will receive this tutorial letter and a printed copy of the online study material for your module. While the printed material may appear different from the online study material, it is the same, as it has been copied from the myUnisa website.

We wish you much success in your studies!

2 OVERVIEW OF ICT2622

2.1 Purpose

Students who have completed this module successfully will be able to analyse and design computerized information systems according to the object-oriented approach. They will also be able to demonstrate the ability to apply the correct methodologies, tools and techniques to the gathered information in order to solve client problems according to specific criteria or according to specific standards of reliability, cost effectiveness, timeousness, applicability, client satisfaction and efficiency.

This module is delivered using myUnisa and the internet as well as peer group interaction; community engagement is also included in some of the activities. Your lecturer(s) will interact with you on myUnisa and via e-mail.

2.2 Outcomes

For this module, you will have to master several outcomes:

- **Specific outcome 1:**
  Analyse, interpret and document client needs according to functional requirements by applying a structured/traditional approach as part of the systems analysis phase of the SDLC

- **Specific outcome 2:**
  Develop information from the analysis phase into *Design Models*

- **Specific outcome 3:**
  Design an object database schema based on a *Class Diagram*

- **Specific outcome 4:**
  Design system inputs and outputs

3   LECTURER(S) AND CONTACT DETAILS

3.1   Lecturer(s)

The primary lecturer for this module is Mr S Mhlongo:

Department: **School of Computing**
Telephone number: **+27 (0) 11 670 9431**
E-mail: **mhlonst1@unisa.ac.za**

Whenever you write to a lecturer, please include the following details to enable the lecturer to help you more effectively:

- Your first name and surname

- Your student number

- The module code

- Registration cycle (e.g. S1/2018 or S2/2018)

- All contact details (Work – include Office hours, Home number, cell number, fax number and e-mail address)

Please provide a detailed message pertaining your problem or query and how you need assistance. Do not just send e-mails without properly edited messages. Badly worded e-mails will lead to misunderstanding and miscommunication between you and the lecturer.

Please do not expect immediate replies since all queries are answered on a first-come-first-served basis. A lecturer will respond to your query within a reasonable period of time, which is usually 48 hours.

3.2   Department

You can contact the School of Computing as follows:

Telephone number: **+27 (0) 11 670 9200**
E-mail: **computing@unisa.ac.za**

3.3   University

To contact the University follow the instructions in the brochure ***Study @ Unisa***. Remember to have your student number available whenever you contact the University.

Whenever you write to a lecturer, please include your student number to enable the lecturer to help you more effectively.
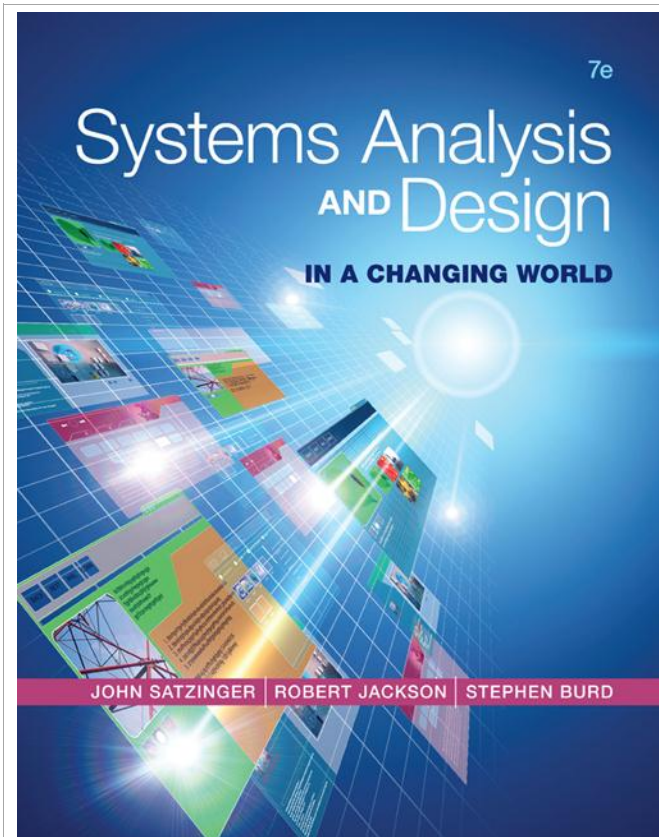
4 RESOURCES

4.1 Joining myUnisa

If you have access to a computer that is linked to the internet, you can quickly access resources and information at the University. The myUnisa learning management system is the University's online campus that will help you communicate with your lecturers, with other students and with the administrative departments at Unisa – all through the computer and the internet.

You can start at the main Unisa website at http://www.unisa.ac.za and then click on the myUnisa orange block. This will take you to the myUnisa website. To go to the myUnisa website directly, go to https://my.unisa.ac.za. Click on the **Claim UNISA Login** on the right-hand side of the screen on the myUnisa website. You will then be prompted to give your student number in order to claim your initial myUnisa details as well as your myLife e-mail login details.

For more information on myUnisa, consult the brochure *Study @ Unisa*, which you received with your study material.

4.2 Prescribed book

The details for the prescribed book for this module are seen below:

Title
Systems Analysis and Design in a Changing World, 7th Edition

Authors
John W. Satzinger, Robert B. Jackson, Stephen D. Burd

ISBN-13
9781305117204

ISBN-10
1305117204

You are expected to purchase your own copy of the prescribed book. For contact details of official booksellers, please consult the list of official booksellers and their addresses located in the *Study @ Unisa* brochure. If you have any difficulties with obtaining books from these bookshops, please contact the Prescribed Books Section at +27 (0) 12 429 4152 or e-mail vospresc@unisa.ac.za

4.3   Other resources – printed support material

Because we want you to be successful in this online module, we also provide you with some of the study material in printed format. This will allow you to read the study material even if you are not online.

The printed study material will be sent to you at the beginning of the semester, but you do not have to wait for it before you start studying – you can go online as soon as you have registered and find all your study material there. The material we will send you is an **offline** copy of the formal content for the online module. Having an offline copy will enable you to study for this module WITHOUT having to use the internet or to go to an internet café. It will save you time and money, and you will be able to read and re-read the material and start doing the activities.

It is very important that you log in to myUnisa regularly. We recommend that you log in at least once a week or every 10 days to do the following:

- **Check for new announcements.** You can also set your myLife e-mail account to receive the announcement e-mails on your cellphone.
- **Do the Discussion Forum activities.** When you do the activities for each unit, we want you to share your answers with the other people in your group. You can read the instructions and even prepare your answers offline, but you will need to go online to post your messages.
- **Do other online activities.** For some of the unit activities you will need to post something on the **Blog**, take a quiz or complete a survey under the **Self-Assessment** tool. Do not skip these activities because they will help you complete the assignments and the activities for the module.

We hope that by giving you extra ways to study the material and practise all of the activities, this system will help you succeed in the online module. To get the most out of the online course you **MUST** go online regularly to complete the activities and assignments on time.

Remember, the printed support material is back-up material for everything that is found online on myUnisa. It does not contain any extra information. **In other words, do NOT wait for the printed support material to arrive before you start studying.**

4.4   Library services and resource information

For brief information, go to www.unisa.ac.za/brochures/studies
For detailed information, go to http://www.unisa.ac.za/library. For research support and services of personal librarians, click on "Research support".

The Library has compiled numerous 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 research – http://libguides.unisa.ac.za/Research_Skills
- contacting the Library/finding us on social media/frequently asked questions – http://libguides.unisa.ac.za/ask

5   HOW TO STUDY ONLINE

5.1   What does it mean to study fully online?

Studying fully online modules differs completely from studying some of your other modules at Unisa.

- ***All your study material and learning activities for online modules are designed to be delivered online on myUnisa.*** Although we give you a printed copy to support your studies, the module is designed to be delivered online.
- ***All of your assignments must be submitted online.*** This means that you do all your activities and submit all your assignments on myUnisa. In other words, you may **NOT** post your assignments to Unisa using the South African Post Office. [This will depend on the module]
- ***All of the communication between you and the University happens online.*** Lecturers will communicate to you by e-mail, and using the **Announcements,** the **Discussion Forums** and the **Questions and Answers** tools. You can also use all of these ways to ask questions and contact your lecturers.

5.2   The myUnisa tools you will use

All of the information about the myUnisa platform tools as well as any other tool that can make your life easier for the duration of this module is located in the ***Study @ Unisa*** brochure. However, we thought it was important to highlight the tools that will be used for your formal assignments.

5.3   e-Tutors

The university is providing e-tutors to students. e-Tutors are there to provide learning support to the registered students related to academic content of this module. You will be assigned to a module group, which will have an e-tutor allocated to it.

6   ASSESSMENT

6.1   Assessment plan

Formative assessment of students will provide opportunity for improvement. Assignments are seen as part of the learning material for this module. The mode of assignments will be paper based using a variety of methods (which may include MCQ-tests, written essays, case studies or even a project). These events will be calculated towards a *Year Mark* that counts 20% of the *Final Mark* for the module.

The responsibility is on you to ensure that the assignments are completed and submitted on time. **Please also expressly note that the lecturers reserve the right to mark only a selected set of questions per assignment**. The following set of tables below gives the due dates of assignments for this module for both semester 1 and semester 2:

Table 1: Assignment due dates for ICT2622 for semester 1, 2018

Assignment Number	Unique Assignment Number	Due Dates	Contribution to Year Mark
01	827827	06 March 2018	30%
02	861872	10 April 2018	40%
03	810810	24 April 2018	30%

Table 2: Assignment due dates for ICT2622 for semester 2, 2018

Assignment Number	Unique Assignment Number	Due Dates	Contribution to Year Mark
01	856475	14 August 2018	30%
02	823980	18 September 2018	40%
03	878488	02 October 2018	30%

Please note that the dates in the above tables are accurate as at the time of finalising this tutorial letter. The university reserves the right to change / modify these dates as and when the circumstances arise. You are therefore urged to constantly check myUnisa for any communication that has an impact on assignment submission dates.

Because this is an online module, the assignments are not provided in this tutorial letter. Instead, the assignments will be posted online on the relevant myUnisa site at the start of each semester.

A summative assessment method will also be used and will be compulsory to attend. The mode of this assessment is a two (2) hour written examination paper which will be sat at UNISA examination centres. The nature of the examination will be a combination of question types in an examination script. The examination mark obtained will count 80% towards the *Final Mark* for the module. The subminimum mark required for a supplementary exam event will be 40%, with another exam opportunity used (as agreed) without repeat enrolment.

6.2   Examination information

There is a two (2) hour written examination for the ICT2622 module, which will be held in May/June and October/November, the Examination Department will inform you of the time, date and venue. To help you in your preparation for the examination, you will receive a tutorial letter 103 that will explain the format of the examination paper and set out clearly what material you have to study for examination purposes.

6.3   Examination admission

You will be admitted to the examination if, and only if, you submit at least one assignment by the cut-off date. When this tutorial letter was produced, the cut-off date was planned as 12 April for the first semester and 14 September for the second semester. Please confirm this date with the Examination Section if you submit your first assignment late. Please note that lecturers are not responsible for examination admission and that all enquiries about examination admission should be directed to the Examination Section at UNISA.

6.4   Year mark and final examination/portfolio

Your final marks will comprise a *Year Mark* that will be gained from formative MCQ and written assignments of 20% and a summative written examination of two (2) hours of 80%. The three (3) assignments for the ICT2622 module count towards the *Year Mark*. In other words, your *Year Mark* will be calculated as follows:

$$Year\ Mark\ =\ [Assignment\ \#1\ Mark] * 30\% +$$

$$[Assignment\ \#2\ Mark] * 40\% +$$

$$[Assignment\ \#3\ Mark] * 30\% +$$

The *Year Mark* then contributes 20% to the *Final Mark* and the exam mark will contribute the balance of 80% to the *Final Mark* for the module. In other words, your *Final Mark* for the module as a whole will be calculated according to the following formula:

$$Final\ Mark\ =\ [Year\ Mark] * 20\% +$$

$$[Exam\ Mark] * 80\%$$

6.5   General assignment numbers

The three (3) assignments for the ICT2622 module are numbered 01, 02 and 03. Please submit each assignment with the correct number, even if it is not the first, second or third assignment that you submit.

6.6   Unique assignment numbers

Please note that each assignment also has a unique number that must be filled in on the mark reading sheet. Please refer to section 6.1 above to take note of these unique numbers.

7   CONCLUSION

We would like to re-iterate a few points that we have already touched on in previous sections of this tutorial letter:

- Do not hesitate to contact your lecturer(s) primarily by email or secondarily, by any of the contact details listed herein or on the myUnisa platform, if you are experiencing problems with the content of this tutorial letter or any aspect of the module. Remember to always include the module code (ICT2622) and your student number in all your communications with the lecturers.

- There is a fair amount of material to cover in this module, therefore we urge you to start the learning process as soon as it is available on the online myUnisa platform.

- We further urge you to go through your learning units, together with supplementary material as found on the online myUnisa platform, as quickly as you can so that you have enough time to complete and submit your three (3) assignments.

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

Enjoy the journey!

The ICT2622 Lecturers.

SCHOOL OF COMPUTING