Tutorial Letter 101/3/2018

ADVANCED GRAPHICAL USER INTERFACE PROGRAMMING

ICT3611

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, ICT3611-2018-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.

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CONTENTS

1 INTRODUCTION

Dear Student,

Welcome to ICT3611: Advanced Graphical User Interface Programming.

Mastery of the content in this module will allow you to analyse, design, implement and maintain *advanced* Graphical User Interfaces (GUIs) for business software systems. The *advanced* adjective here refers to the objects and concepts behind the implementation of the business application and not the GUI components themselves.

1.1 To get started

Please note that this module is offered on-line only. This means that all the information that you will need can be found on the *my*Unisaweb-page for ICT3611, and all communication with you will be via this page, announcements sent from the web page, and email to your *my*Life account.

The ICT3611 **Home** page (or landing page) provides you with all the information regarding the module, as well as the contact details of the lecturer responsible for the module.

From there, you should move to the **Learning Units**. This is where you will find all the important information about the module:

1. Orientation: This unit provides more general information about the module:
   (a) What the purpose and learning outcomes of the module are.
   (b) Information about the prescribed book.
   (c) The assessment plan informing you of what assignments there are, when they are due, what they count, and how the year, exam, and final marks are calculated.
   (d) There is also a study plan with dates to help guide you through the module.
   (e) The assignments for the module.
2. For the learning material, there are units that indicate what the learning outcomes for that unit are, what has to be studied, and some extra notes.
3. The learning units may contain videos that provide practical examples. These videos are hosted on YouTube.

4. There are **Additional Resources** that will be referred to from the learning units, and you can download materials from there. If you have trouble accessing YouTube from your regular Internet connection (from work, for example) the videos will be placed in the **Additional Resources** section on request.
5. Under the **Official Study Material** page you can also find copies of past exams, which you can use to practice. You are welcome to send your attempts at completing these past exams to the lecturers for feedback and comment.

We wish you success on your journey!

2 MODULE FORMAT: ICT3611

2.1 Suggested Study Plan

We provide a suggested plan in the table below to aid in your study and examination preparation. The table also includes the due dates of assignments. Please peruse the table and make sure to keep to the suggested schedule.

Semester 1 Dates	Semester 2 Dates	Content
Week 1	Week 1	Read the pre-amble (this learning unit), Learning unit: Exceptions, Classes and Debugging.
Week 2	Week 2	Learning Unit: Object Oriented Programming
Week 3	Week 3	Learning Unit: Organizing and Documenting your Classes
Week 4	Week 4	Learning Unit: Files and Data Streams
Week 5	Week 5	Learning Unit: Database programming,
Week 6	Week 6	Learning Unit: Bound Controls and Parametrized Queries
Week 7	Week 7	Learning Unit: ADO.NET and custom data access code.
Week 8	Week 8	Learning Unit: Web Services
Week 9	Week 9	Learning Unit: XML Files
Week 10	Week 10	Learning Unit: LINQ
Week 11	Week 11	Learning Unit: Enhancing the UI and De-
Week 12	Week 12	Start exam preparation

2.2 Fully on-line module

Please note that this module is offered fully on-line

All study material for this module will be available on *my* Unisa. It is thus very important that you register on *my* Unisa and access the module site on a regular basis. You must be registered on *my* Unisato be able to access your learning material, submit your assignments, gain access to various learning resources, chat to your lecturer or teaching assistant and fellow students about your studies and the challenges that you might encounter, and to participate in on-line discussion forums. Importantly, *my* Unisa contains the Learning Units tool from which you will only be able to access the study material for this module if you have registered and have access to *my* Unisa.

3 LECTURERS AND CONTACT DETAIL

3.1 Lecturers

Please make use of the Tutorial Letter 301 for lecturer contact information. Additionally, the *landing* page for the module on myUnisa will have additional contact details and important information about setting up appointments with the lecturers.

Please make use of the osprey system (http://osprey.unisa.ac.za) before you phone – your lecturers may not be in their offices.

When you contact the lecturers, please do not forget to always include your student number. This will help the lecturers to assist you.

3.2 Department

This module is taught at the School of Computing in the College of Science Engineering and technology. Please see the website for contact details (http://osprey.unisa.ac.za/).

3.3 University

To contact the University, you should follow the instructions in the study@Unisa brochure. Remember to have your student number available when you contact the University.

4 ASSESSMENT

4.1 Assessment plan

Because this is an on-line module, the assignments are not provided at the beginning. Instead, you are given the assignments within the on-line study materials, as they occur during the course. You can see them, when you go on-line, or read them in the printed support materials. Since 2017 the assignments have a weight of **30%** in your final mark, so take advantage of this change!

To help you with you planning the assignment due dates and unique numbers are provided in this tutorial letter (see table 1 – use the correct unique number for your semester), and in the on-line learning units.

Assignment	Due Date	Unique Number
Semester 1: assignment 01	2018-03-16	702361
Semester 1: assignment 02	2018-04-20	740935
Semester 2: assignment 01	2018-08-17	624012
Semester 2: assignment 02	2018-09-21	804743

Table 1: Assignment due dates

Do not hesitate to contact your lecturer by email if you are experiencing problems with the content of this tutorial letter or 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.

Enjoy the journey!

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