

Tutorial Letter 102/0/2025

**Advanced Systems Development
(Information Systems)
INF3705**

**ASSIGNMENT 01
School of Computing**

IMPORTANT INFORMATION:

Please activate your *myUnisa* and *myLife* email addresses and ensure you have regular access to the *myUnisa* module site as well as your group site.

Define tomorrow.

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1 ASSESSMENTS AND EXAMINATION PORTFOLIO QUESTIONS

Plagiarism is the illegal practice of using someone else's ideas and words and creating the impression that they are your own. Plagiarism is an infringement of copyright laws. Lecturers can easily detect when a student has plagiarised – because they are familiar with the sources that students are likely to use and because of changes in the writing style of students.

Please also ensure that you do not work with another student. The assessments and portfolio must be your own work.

Please note: Ensure that your entire assessment is your own work and that you comply with Unisa's policy on plagiarism.

2 Assignment /Assessment 01

Please read the instructions below and then answer question 1.

INSTRUCTIONS

- Please complete this assessment in Microsoft Word and save it as a PDF.
- Submit it online on myUnisa.
- You must submit this assessment by the due date indicated on the module site.

Layout

- Type your assessment in Arial, font size 12.
- You must include a front page with your name and student number, the module number, assessment number and the date.
- Include a table of contents.
- Insert page numbers.
- Do a spellcheck.
- Make sure that you number all the questions in accordance with the numbers, as indicated in this tutorial letter.
- Include the signed copy of the plagiarism pledge as appendix A.
- Include the documents that support your answers as appendices.
- **Do not include confidential information of your selected organisation.**
- **Do not attach your organisational policies or procedures.**
- **Do not include personal information of any employee in your organisation.**
- While preparing your assessment, make sure that you refer to the **rubric posted** on myUnisa and include all aspects in your assessment for which marks will be awarded.

Question 1**[15]**

What is the most important difference between generic software product development and custom software development? What might this mean in practice for users of generic software products?

Question 2**[15]**

Software engineering is not only concerned with issues like system heterogeneity, business and social change, trust, and security, but also with ethical issues affecting the domain. Give some examples of ethical issues that have an impact on this domain

Question 3**[15]**

Compare and contrast the Scrum approach to project management with conventional plan-based approaches. Your comparison should be based on the effectiveness of each approach for planning the allocation of people to projects, estimating the cost of projects, maintaining team cohesion and managing changes in project team membership.

Question 4**[15]**

Suggest how an engineer responsible for drawing up a system requirements specification might keep track of the relationships between functional and non-functional requirements

Question 5**[10]**

When describing a system, explain why you may have to design the system architecture before the requirements specification is complete

Question 6**[15]**

Testing is intended to show that a program does what it is intended to do. Why may testers not always know what a program is intended to do?

Question 7**[15]**

What do you understand by the term 'stress testing'? Suggest how you might stress test a Mentcare system.

Total: 100