

Discrete Mathematics ICT101 Assessment 3 (50%)

Instructions

Assessment Type: Individual Assignment

Purpose of the assessment: To develop a plan for a real-world example of an application in information technology from the **one of the topics given below**. This assessment contributes to the various learning outcomes of your Bachelor of IT degree.

Assessment Task: In the initial part of assignment, the student will be tested on their skills on writing literature review of a topic student have learnt in the Discrete Mathematics (ICT101) course in the week 1 to 6. Students need to read at least 3 articles or books on this topic especially **with application to Information Technology** and give detail review of those. Student will also identify one application of information Technology related to the topic in which he/she is interested and write a complete account of that interest.

Student can use the following database to find article or books.

- o EBSCO Databases
- o Emerald Insight
- o IBISWorld
- o IGI Global
- o ProQuest eBooks
- o O'Reilly Learning

Student will be exploring and analysis the application of information technology related to the topic which are identified by him/her, and he/she must recognise an application that can be programmed into computer. Each group must sketch a plane to draw a flow-chart and algorithm. Use some inputs to test the algorithm (Give different trace table for each input) and identify any problem in the algorithm. Suggest a plane to rectify or explain why it can't be rectified. Each student must write one report on its findings.