**Course Work Answer Book**

**UNIVERSITY COURSE WORK**

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| REGISTRATION NUMBER | | | | | | | | | VU-BCS-2201-0003-EVE | | | | | | |
| Title of The Program (eg BBA, BSC, BPH, BSWA) | | | | | | | | | | | | | BCS | | |
| Bachelor of Science in Computer Science | | | | | | | | | | | | | | | |
| Department | | | | Other Depts in Faculty of Science and Technology | | | | | | | | | | | |
| Faculty | Faculty of Science and Technology | | | | | | | | | | | | | | |
| Year Of study (YrI , YrII, YrIII, or YrIV) | | | | | | | | | | | 3 | | | | |
| Module Code and Name | | | | | | | 3109 FST | | | | | | | | |
| Modelling and Simulation | | | | | | | | | | | | | | | |
| Semester | | | 2 | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | |
| Retake: | | Yes | | |  | | | No | |  | | (Tick whichever is applicable) | | | |
| Date of Course Work | | | | | | Sun Sep 01 2024 16:08:33 GMT+0300 (East Africa Time) | | | | | | | | | |
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| **DIRECTIONS TO CANDIDATES (Turn to page ii for more instructions).** | | | | | | | | | | | | | **FOR USE BY EXAMINERS ONLY** | | |
| **Question Number** | **Internal Examiner** | **External Examiner** |
| 1. Leave margin blank. 2. Begin each answer on a fresh page. 3. Write the number of each question and theCandidate's Number at the top of each page. 4. Write the numbers of the questionswhich you have attempted, with subsections where necessary, in the spacesprovided below | | | | | | | | | | | | |
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| **TOTAL** |  |  |

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| **NUMBER OF QUESTIONS** you have answered in the order in which you have written them | | | | | | | | |
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**How and where should I submit my Course Work script?**

Every student will be required to submit their Course Work via [VClass Students Portal](https://vclass.ac/) E.g. you go to [www.vclass.ac](http://www.vclass.ac) and login, to your account, then on the left sidebar menu **click on Course Work**.

Under Course Work you will see the following: -

1. Instructions for that particular Course Work with time required to finish your Course Work as per instructions,
2. A student will be required to download the question paper and the answer sheet provided by the university within the same module Course Work, or a student can be required to attempt structured questions within the system depending on how the Course Work was set.
3. Submission of answered questions is done,
4. Student is required to click to **consent** to show that the answered Course Work belongs to them.
5. **Note** that if Course Work is for download, a student will be required to download the question paper and answer sheet, do their Course Work within the given stipulated time.
6. Required to scan and upload back the answered booklet through the same portal as per format available.
7. Course Work uploaded will directly be received by the Registry department.
8. Students here are required to use [VClass e-Learning system](https://vclass.ac)for all Course Work and for any failure they can contact the Registry department for guidance.
9. No late submission will be accepted.**Avoid any malpractice because this will attract severe penalties such as invalidating the answered script whose consequences will attract retakes.**

**Question 1**

**Instruction (iv)**

Briefly I started by giving the fields as listed above the data which include Customer Number, Arrival time, Interarrival time, Service time, begins service time, End service time, Time customer is in system, Time server is idle.

Then I started computing from the first customer at arrival time “0” then computed interarrival time “=RANBETWEEN(1,15) then give the output then drag it down up to number 20 to automatically computes the values for each customer.

The values keep changing as you continue computing from service time up to the time that the server is idle.

**Method used are**

“Data”, “what if analysis”, “Data table”, then choose column and highlights number of replication from 1 to 50 including average figures for the application to generate the rest of the data.

For “Time server is idle” you right click on the percentage figure then go to format cell, then select percentage and drag it down to the last for automatic computation.

Video link

Video link

<https://youtu.be/ODDbcqCUbWc>

[Recording #8 (youtube.com)](https://www.youtube.com/watch?v=sRT1x9hjCio)

Link to question course work on github is below

[Wodngoo1/SM\_CW-QN1: Excel Simulation (github.com)](https://github.com/Wodngoo1/SM_CW-QN1)

[Wodngoo1/-SM\_CW-QN2- (github.com)](https://github.com/Wodngoo1/-SM_CW-QN2-)