**Adventist University of central Africa (AUCA)**

**Faculty:** Information Technology

**Course:** Study and Method Research

**Assignment:** Final Submission

**Group Number:** Group 5

**Group Members:**

1. Mutangana Joseph 29062
2. MUHIRE Heritier 28773
3. HASHIMWIMANA Bruno 29012
4. Name 4-id
5. Name 5-id
6. Name 6-id
7. Name 7-id

**Date:** May 7, 2025.

**Solution 1:**

**Transcript of student Not in probation after 8 semesters**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Course Name** | **Type** | **Credits** | **Garde/20** | **Credits\*Grade** |
| Principles of Accounting I | Minor | 24 | 18 | 432 |
| Intro to comp appliccation | Major | 31 | 14 | 434 |
| Applied Mathematics | Major | 31 | 16 | 496 |
| Intro to Bible Study | Minor | 16 | 14 | 224 |
| Study & method Research | Minor | 16 | 15 | 210 |
| General English | Minor | 24 | 17 | 408 |
| **Total** |  | **142** |  | **2204** |

**GPA** = 2204/142 = 15.5

**GPA of Mojor Courses** = 434+496/31+31 = 930/62 = 15

**Solution 2:**

**Transcript of Student in probation after 4 Semesters**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Course Name** | **Type** | **Credits** | **Garde/20** | **Credits\*Grade** |
| Principles of Accounting I | Minor | 12 | 11 | 132 |
| Intro to comp appliccation | Major | 15 | 8 | 120 |
| Applied Mathematics | Major | 15 | 7 | 105 |
| Intro to Bible Study | Minor | 8 | 9 | 72 |
| Study & method Research | Minor | 8 | 9 | 72 |
| General English | Minor | 12 | 10 | 120 |
| **Total** |  | **70** |  | **621** |

**GPA** = 621/70 = 8.8

**GPA of Mojor Courses** = 120+105/15+15= 225/30 = **7.5**

**Solution 3 :**

**Calendar, Diary**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Month** | **week 1** | **week 2** | **week 3** | **week 4** |
| **January** |  | Orientation | Classes started | Lessons Continued |
| **February** | Lessons contued | Quizzes began | Lessons Continued | Lessons Contued |
| **March** | Midsemster | Midsemester exams | Midsemester exams | Week of prayer |
| **April** | week of Prayer | Genocide Memorial week | Lessons continued | Final Revision |
| **May** | Final Revision | Final exam | Final exam | End semester |

**Solution3:**

**Timetable Of Studied semester**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **HOUR** | **SUNDAY** | **MONDAY** | **TUESDAY** | **WEDNESDAY** | **THURSDAY** | **FRIDAY** |
| 8:30-9:20 |  | Introduction to Bible | Principles of Accounting I | Study and  Research Methods | Introduction  to Computer Applications |  |
| 9:30-10:20 |  | Introduction to Bible | Principles of Accounting I | Study and  Research Methods | Introduction  to Computer Applications |  |
| 10:30-11:20 |  |  | Principles of Accounting I |  | Introduction  to Computer Applications |  |
| 11:30-12:20 |  |  |  |  | General  English |  |
| 12:30-13:20 |  |  |  |  | General  English |  |
| 13:30-14:20 |  |  |  |  |  |  |
| 14:30-15:20 |  | Applied  Mathematics |  |  |  |  |
| 15:30-16:20 |  | Applied  Mathematics |  |  |  |  |
| 16:30-17:20 |  | Applied  Mathematics |  |  |  |  |

**Solution 4:**

**AUCA LIBRARY**

1. When a students want to borrow a book at AUCA library he/she needs Student ID to be able to get the book, and AUCA Library is opened to non AUCA students, but those one will need to be permited to use library.

|  |  |
| --- | --- |
| **Working Time** | |
| **DAYS** | **HOURS** |
| Monday to Thuirsday | 8:30 AM to 8:00 PM |
| Friday | 8:30 AM to 3:00 PM |

**Solution 5: Research on Specific Problem**

**Based on our research Titled:** Smart gate system with face recognition at AUCA,

1. **General research question:**

How can a smart gate with face recognition help student to enter AUCA?

1. **General abjective:**

To build smart gate that will help students at Gishushu AUCA branch to enter without showing their ID or registration forms every day especially newcomers.

1. **Null Hypothesis:**

Using face recognition gate system doesn’t make entry faster than current way for chacking IDs.

1. **Population** are all student at Gishushu AUCA branch

**Sample size: n =**

where:

n = sample size we are looking for

N = n umber of population

e = margin error(commonly 0.05 for 95% confidence)

let say that at Gishushu AUCA branch have 2000

**n =**

**n= 2000/6 =333(sample size)**

1. **Research Instrument we can use to get primary data:**

We can use a **survey (questionnaire)** for students. Just a few questions like:

1. Is it annoying to show your ID every day at the gate?
2. Does the current gate process waste your time?
3. Do you think face recognition can make entry easier?
4. Would a smart gate reduce problems with security staff?
5. Do you feel safer with a system that uses face scanning?

Students can answer from 1 (strongly disagree) to 5 (strongly agree).