**Question 1 -** Imagine a transcript of a student getting all categories of grades after 8 semesters at AUCA and calculate the general average and the average for major courses (This case must not be in probation).

**Transcript Not in Probation After 8 Semster**

| **Course Name** | **Type** | **Credits** | **Grade (out of 20)** | **Weighted Grade (Grade × Credits)** |
| --- | --- | --- | --- | --- |
| Applied Mathematics | Major | 31 | 16 | 496 |
| Accounting | Non-Major | 24 | 14 | 336 |
| Bible Study | Non-Major | 16 | 12 | 192 |
| General English | Non-Major | 24 | 18 | 432 |
| Intro to Computer | Major | 31 | 15 | 465 |
| Study & Research | Non-Major | 16 | 13 | 208 |
| **Total** |  | **142** |  | **2129** |

### GPA Calculation:

Total weighted grade = **2129**

Total credits = **141**

GPA = Total weighted grade / Total credits = **2129 / 142 = 14.99**

GPA of Major Courses = Total weighted grade / Total credits = **496+465/31+31=961 / 62 = 15.5**

**Question 1 -**Imagine a transcript of a student getting all categories of grades after 4 semesters at AUCA and calculate the general average and the average for major courses (this case must be in probation).

**Transcript In Probation After 4 Semster**

| **Course Name** | **Type** | **Credits** | **Grade (out of 20)** | **Weighted Grade (Grade × Credits)** |
| --- | --- | --- | --- | --- |
| Applied Mathematics | Major | 31 | 7 | 217 |
| Accounting | Non-Major | 24 | 11 | 264 |
| Bible Study | Non-Major | 16 | 9 | 144 |
| General English | Non-Major | 24 | 10 | 240 |
| Intro to Computer | Major | 31 | 8 | 248 |
| Study & Research | Non-Major | 16 | 9 | 144 |
| **Total** |  | **142** |  | **1257** |

### GPA Calculation:

Total weighted grade = **2129**

Total credits = **141**

GPA = Total weighted grade / Total credits = **1257 / 142 = 8.85**

GPA of Major Courses = Total weighted grade / Total credits = **217+248/31+31=961 / 62 = 7.5**

**Question 3 – Calendar, Diary, and Timetable**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Month** | **Week 1–2** | **Week 3–4** | **Week 5–6** | **Week 7–8** |
| **January** | Orientation, Course setup | Classes begin | Class activities | Intro assignments |
| **February** | Regular lessons | Quizzes begin | More assignments | Group work |
| **March** | Midterm revision | Midterm exams | Feedback sessions | Continue lessons |
| **April** | Project work | Quiz & small tests | Assignment deadline | Class presentations |
| **May** | Final revision | Final exams | Research submission | End of semester |

### ****Question 5 – Research Part (Simple Version)****

**Based on our project: Smart Gate System with Face Recognition**

#### ****A. General Research Question****

How can a smart gate with face recognition help students enter AUCA faster and easier?

#### ****B. General Research Objective****

To build a smart gate that uses face recognition so students can enter AUCA without showing ID every day.

#### ****C. Null Hypothesis (H₀)****

Using a smart gate with face recognition does not make entry faster or better compared to the current way of checking IDs.

#### ****E. Research Tool (How to collect 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?
6. Students can answer from 1 (strongly disagree) to 5 (strongly agree).