**Asynchronous Activity 2 – Project Management**

Due Date: Thursday (03-10-2024) Due Time: 12:00 PM

*Note\* Student will be marked for Week 2 Asynchronous session.*

***LO1:*** *Demonstrate understanding of the concepts and basic principles of system development to meet client/community requirements.*

**Instructions**:

* Naming convention for the document is “**StudentID\_FirstName”**.
* Submit your Work through the link provided on Moodle in same week.
* Your attendance will be considered based on your submission.
* Don’t plagiarise and do your own analysis.

1. Using the default formula calculate the most likely duration for the tasks in Table 1. Perform the calculation manually by using the formula studied and discussed in slides. Write your answers in the last column in this word file.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Task** | **Optimistic Duration** | **Pessimistic Duration** | **Expected Duration** | **Most Likely Duration** |
| A | 3 | 6 | 4 | 4.17 |
| B | 1 | 3 | 2 | 2 |
| C | 4 | 7 | 6 | 5.83 |
| D | 2 | 5 | 3 | 3.17 |
| E | 3 | 9 | 6 | 6 |
| F | 3 | 3 | 4 | 3.67 |

Table 1

1. Draw a PERT/Network chart in MS Project for the tasks in Table 2. The most likely durations have already been calculated for you. Using next Monday as the project start date, determine the most likely date by which the project can be completed. Show the critical path for the project. Construct a Gantt char for the project. Paste the screenshot of your Gantt Chart on this word file with required changes. Answer in the Critical Task column as “Yes” or “No” in this word document

|  |  |  |  |
| --- | --- | --- | --- |
| **Task** | **Duration in days** | **Predecessor** | **Critical Task** |
| Preliminary investigation | 2 | none | Yes |
| Problem analysis | 3 | 1 | Yes |
| Data requirements analysis | 21 | 2 | Yes |
| Process requirements analysis | 3 | 3 | No |
| Database design | 30 | 3 | Yes |
| Interface design | 5 | 3, 4, 5 | Yes |
| Process and program design | 25 | 3, 5, 6 | Yes |
| Programming and unit testing | 35 | 5, 6, 7 | Yes |
| System testing | 2 | 8 | Yes |
| Installation | 1 | 9 | Yes |

Table 2

A screenshot of a computer

Description automatically generated

A screenshot of a computer

Description automatically generated