

Programme Name: Bachelor Of Computer Science

Course Code:

Course Name: Software Project Management

Assignment: 2

Date of Submission: 12 December 2021

**Submitted By: Submitted To:**

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IUKL ID: : 042101900085 Department: BCS

Semester: Second

Intake: March

**Question Number 2:**

Given,

The following information is for a one year project

i)

Cost Variances is calculated as EV-AC and indicates the difference between the budgeted cost and the actual cost of the completed work.

Cost Variance = EV-AC

= $20,000- $25,000

= -$5000

ii)

Schedule Variance is calculated as EV-PV and it indicates the degree to which the value of the completed work differs from that of the planned.

Schedule Variance = EV-PV

= $20,000-$23,000

= -$3000

iii)

Cost Performance Index(CPI)= EV/AC

= 20,000/25,000

= 0.8

iv)

Schedule Performance Index(SPI) = EV/PV

= 20,000/23,000

= 0.86

V)

EAC-BAC/CPI= $120,000/.8

= $150,000

vi)

Estimated Time to complete= Time Estimation/SPI

= 12 months/.86

= 13.9

B)

The project is failing very badly because both the cost and the schedule variances are both in negative. The negative schedule variance indicates that the project is behind schedule whereas the negative cost variance indicates that the project is over the budget. The project is under-performing because the revised estimation is $150,000 which is $30,000 higher then the previous estimation. The project is expected to take 13.9 months to complete which is 1.9 months longer than expected.