AMERICAN INTERNATIONAL UNIVERSITY-BANGLADESH

Assignment Title:	Activity Scheduling and Resource Allocation			
Assignment No:	08		Date of Submission:	2 May 2024
Course Title:	Software Engineering			
Course Code:	CSC3112		Section:	J
Semester:	Spring	2023-24	Course Teacher:	TONNY SHEKHA KAR

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FACULTYCOMMENTS	**Marks Obtained**	

Earned Value Analysis

Effort estimated = 15.74 * 22

= 346 person-day

Total task = 51

EVA conduct date: 12/02/2023

8 tasks have been completed but the project schedule indicates that 11 tasks should have been completed in that time.

Task Planned effort Actual effort

1 11.0 12.5

2 12.0 16.0

3 17.0 11.8

4 8.6 10.2

So here, BAC = 346 BCWS = 110.4

BCWP = 84.4 ACWP = 88

BCWP ACWP
5 5.8 5.0
6 14.0 BCWS 16.0
7 9.0 10.0
8 7.0 6.5
9 12.8
10 4.6
11 8.6

SPI = BCWP / BCWS = 84.4 / 110.4 = 0.76449

SV = BCWP – BCWS = 84.4 – 110.4 = -26 person-day

CPI = BCWP / ACWP = 84.4 / 88 = 0.95909

CV = BCWP – ACWP = 84.4 – 88 = -3.6 person-day

% Schedule for completion = BCWS / BAC

= 110.4 /3

= 31.90%

[% of work schedule to be done at this time]

% Complete = BCWP / BAC

= 84.4 / 346

= 24.39%

[% of work completed at this time]

Risk Estimation

Risks	Category	Probability	Impact
Size estimated might be lower than expectation	PS	55%	2
Number of users might be higher than expectation	PS	25%	3
Larger number of users than planned	PS	35%	3
Less reuse than planned	PS	70%	2
Deviation from define software development process	PR	40%	2
Delivery might exceed deadline	BU	45%	2
Funding will be lost	CU	40%	1
Project budget might exceed expectation	CU	40%	1
Unavailability of necessary tools	DE	70%	1
Personnel shortfalls	ST	20%	4
Developing the wrong software functions	TE	5%	1
Developing the wrong user interface	TE	5%	1
Late changes to requirements	BU	30%	3
Development technically too difficult	ST	10%	2
Security Vulnerabilities	TE	30%	2

Inexperienced Staff	ST	35%	2
Important staff are present on development site parttime	ST	10%	4
Interface design might not be user friendly	DE	25%	3
Ethical Dilemma	BU	30%	2
Evolving Landscape	CU	40%	4

Impact values:

1— catastrophic
2—critical
3—marginal
4—negligible