

SECOND ASSIGNMENT
SEPTEMBER/OCTOBER SEMESTER 2020

BACHELOR OF COMPUTER SCIENCE (HONS.)
(IN COLLABORATION WITH IUKL)

SOFTWARE PROJECT MANAGEMENT
(CSC 2330)

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GENERAL INSTRUCTIONS

1. This question booklet consists of 2 pages including this page.
2. There is one **SECTION** in this question booklet.
3. Please submit assignment solution in **SOFT COPY FORMAT** in A4 size paper.
4. **The Deadline for Submission is on 5th January.**



SECTION A

This section consists of THREE (3) questions. Answer all question in your assignment copy.

1. Describe scrum framework in detail with the help of a diagram. (10 marks)

2. Perform a financial analysis of a project assuming that the projected costs and benefits for this project are spread over four years as follows:

Estimated costs are \$200,000 in Year 1 and \$30,000 each year in Years 2,3 and 4.

Estimated benefits are \$0 in year 1 and \$100,000 each year in Years 2,3 and 4. Use a 9 percentage discount rate, round the discount factors to two decimal places. Create a table of financial template on the paper to calculate and clearly display the NPV, ROI and year in which payback occurs with the help of a graph. In addition, write a paragraph explaining whether you would recommend investing in this project, based on your financial analysis.

(10 marks)

3. Assume that you have completed six months of the project. The BAC was \$400,000 for the six-month project.

PV= \$220,000

EV= \$200,000

AC= \$180,000

a. Calculate Cost variance.

(1 mark)

b. Calculate Schedule variance for the project.

(1 mark)

c. Calculate the Cost Performance Index.

(1 mark)

d. Calculate the Schedule Performance Index.

(1 mark)

e. Calculate the Estimate at Completion.

(2 marks)

f. Estimate how long it will take to complete the project.

(2 marks)

g. Is the project performing better or worse than planned?

Is it Behind or ahead of schedule? Is it under budget or over budget?

(2 marks)