	Page No.
	O.R. Date
	PSSJGNMENT-2
	\$1304 (INTICIAL)
	Title: Implementation of Critical Path Method
	Problem Definition: Using CPM, determine the
, ,	. sarly start and late start of all node
	. sarly start and later start of all node points and identify critical path for the
	· dollowing network.
	Also draw the network Analysis Table
	(2) 8 (5) 6
	10 7 13
	0 8 6 16 7 12
	3
	9 7 /15
	6 5 9
	Objective: To implement and leaver the critical
	path method for the given graph
	e To draw the Wehisouk Analysis Table
P	for the given graph.
141 11	Comment of the commen
- itin	Dutcome: The students will be able to find
1 1000	the reitical path for any given greight
	using the critical path method
	3) w and MIW requirements
	05-64 bit open source linux of its derivation
	Programming languages: Java Python
	GBRAM, CPV, Mouse, Keyboard.
	minimum minimum de la companione de la c



The chilical Path method (CPM) is a
step by step project management dechnique
for process planning that defines witical and
non-unitical tasks with the goal of preventing time-frame problems and process
botherecks. The CPM is ideally suited
to projects consisting of nemerous activities that interact in a samplex manner
for finding the witical path we need
to construct a model containing

project (neve O, D, 3 --- (10))

2. The time duration that each activity

will take to complete (here the weighter given on the edges of the graph)

3. dependencies between the activities.

(# here the arrow edges between any two

4. logical end points such as milestones or deliverable items. (here the direction.

of the arrows on the edges)

Using these values, CPM, calculates the logical longest fath of planned activities to logical end points on to the end of the project, and the earliest that each activity can start and finish

without making the project larger.

Page No.	
Date	

Critical Path Method.

- It is used in project Management.

   It shows how earlier project can be complete

Inpuls: Jon Activities

2. Owation- 10 parties person of 3. Precodence sulationship

Early and late start times of all nodes-Network Analysis table

Major Steps of the Critical Paths.

- 1. Identifying the activities 2. Construction of project network.
- 3. Perform time estimation using forward and
- backward pass.
  4. Identifying the critical path.

Rules for designing the Activity-On Mode network

- diagram . A project network should have only one start rade and one end nade
- 2. A rade has a direction

5. Time noves from left to right in project network

Page No.	
Date	

6. A network should not contain loops. 7. A network should not contain dangles

Conclusion:

Thus we successfully implemented the critical Path Method to find the earliest and latest start times for each node in the given not graph. We also wrote the Notwork analysis table.