

Date: 10/07/2025

### Lab Practical #05:

Perform a financial analysis for a project to calculate NPV, ROI, and year in which pay back occurs for the given values.

### Practical Assignment #05:

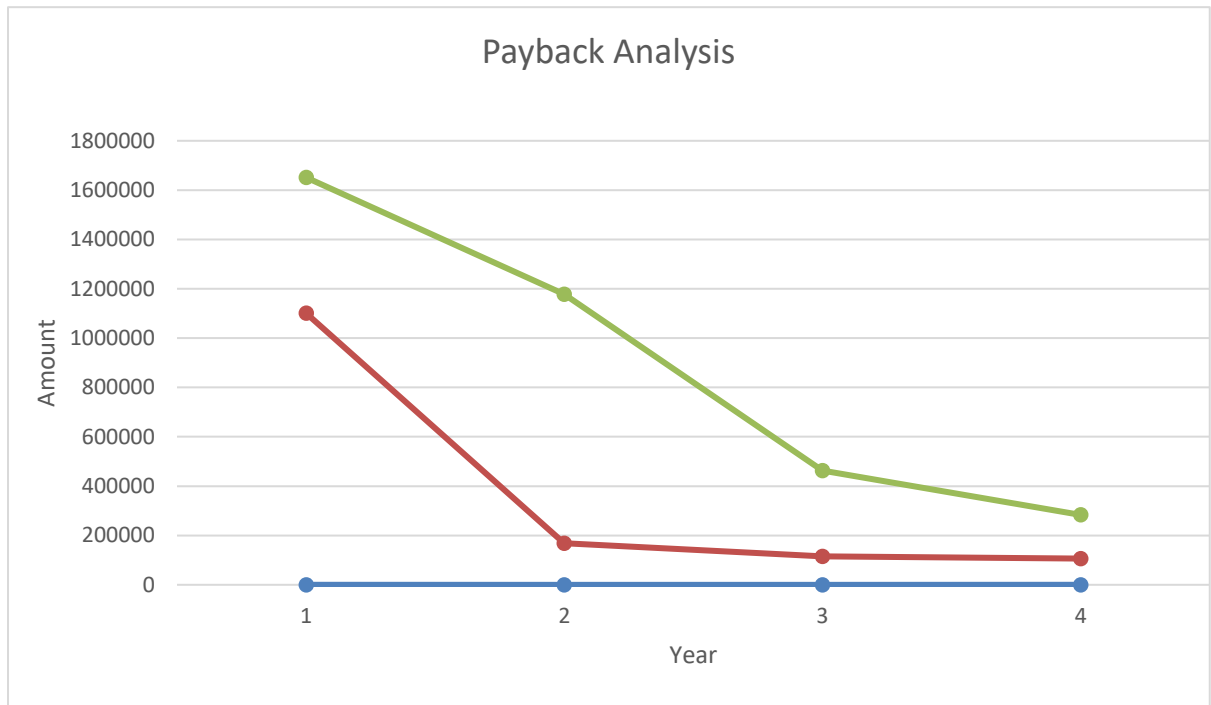
Perform a financial analysis for a project using the format provided in earlier example. Assume that the projected costs and benefits for this project are spread over four years as follow: **Estimated costs are ₹12,00,000 in Year 1 and ₹200,000 in year 2 and ₹1.5 lakh in Years 3, and 4. Estimated benefits are ₹18,00,000 in Year 1 and ₹14,00,000 in Year 2, ₹6,00,000 in Year 3 and ₹4,00,000 in Year 4.** Use a **9 percent discount rate**, and round the discount factors to two decimal places. Create a spreadsheet or use the business case financials template on the companion website to calculate and clearly display the **NPV, ROI**, and **year** in which payback occurs. In addition, write a paragraph explaining whether you would recommend investing in this project, based on your financial analysis.

### Description:

Rate = 9%						Total
Discount Rate	1	2	3	4		
cost	₹ 12,00,000.00	₹ 2,00,000.00	₹ 1,50,000.00	₹ 1,50,000.00		
Discount Factor	0.92	0.84	0.77	0.71		
Discount Cost (Discount factor * cost)	₹ 11,00,917.43	₹ 1,68,336.00	₹ 1,15,827.52	₹ 1,06,263.78		1491345
Benefit	₹ 18,00,000.00	₹ 14,00,000.00	₹ 6,00,000.00	₹ 4,00,000.00		
Discount Factor	0.92	0.84	0.77	0.71		
Discount Cost (Discount factor * Benefits)	₹ 16,51,376.15	₹ 11,78,351.99	₹ 4,63,310.09	₹ 2,83,370.01		3576408
Discount Benefits - Discount Costs =				₹ 20,85,063.50		1.39811
NPV/Discount Cost				1.398		

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**Chart:**



**Conclusion:**

Based on this financial analysis, the project demonstrates strong financial viability. With a payback period of under 1 years and a ROI over 139%, it recovers its cost quickly and delivers high returns. The positive NPV of 20.85 Lakhs further supports this. Therefore, it is financially sound to proceed with this investment