

SNS College of Technology

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Coimbatore - 35

23BAT611- Financial Management

Problem on Capital Budgeting



Presented by

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Design Thinker





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RECAP

2/12

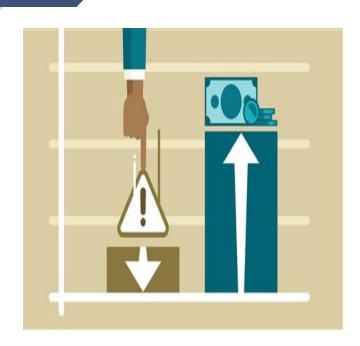


Topic











PV,PV,PAYBACK,ARR











Problem 7



Year	Outflows	Profit after depreciation but before tax				
0	2,00,000	-				
1		1,00,000				
2		1,00,000				
3		80,000				
4		80,000				
5		40,000				

Depreciation 20% on original cost and taxation 50% of net income



Calculate



- Pay-back method
- Accounting Rate of Return
- Average Rate of Return

- Discounted Cash Flow Method 10% cost of capital
- Excess Present Value Index







Year	EBT	TAX	EAT	DEP(20%* 2,00,000)	Cash inflow	Cummulative cash inflow
1	1,00,000	50,000	50,000	40,000	90,000	90,000
2	1,00,000	50,000	50,000	40,000	90,000	1,80,000
3	80,000	40,000	40,000	40,000	80,000	2,60,000
4	80,000	40,000	40,000	40,000	80,000	3,40,000
5	40,000	20,000	20,000	40,000	60,000	4,00,000

Payback Period=2 Years,((80,000/20,000)*12)=2 Years,3 Months



Contd.....



2.) Accounting Rate of Return:

Accounting Rate of Return=(Average EAT/Original investment)*100 =(40,000/2,00,000)*100=20%

3.) Average Rate of Return:

Average Rate of Return=(Average EAT/Average of investment)*100 =(40,000/1,00,000)*100=40%







Year	Cash inflow	PV Factor @10%	Cummulative cash inflow
1	90,000	0.909	81,810
2	90,000	0.826	74,340
3	80,000	0.751	60,080
4	80,000	0.683	54,640
5	60,000	0.621	37,260
Total PV	3,08,130		
Total Ou	2,00,000		
NPV	1,08,130		







Excess Present Value Index=(PV of cash inflow/PV of cash outflow)*100 =(3,08,130/2,00,000)*100 =154%



ASSESSMENT



Spell out the formula for Average Rate of Return



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