Lecture example 1

Required

- (a) If a project involved the outlay of £1000 today and provided a definite return of £1001 immediately, would you accept it?
- (b) If a project involved the outlay of £1000 today and provided a definite return of £1001 in 1 year's time, would you accept it?

Solution

- (a) Yes, you will be £1 better off.
- (b) No, you would instinctively reject it. £1001 received in 1 year's time is not as attractive as £1001 received today; this is the meaning of the term 'time value of money'. You would reject the project because you would be better off if you put £1000 into a bank account for a year; it would give you approximately £1050 in 1 year.

It is common sense to reject £1,001 received in 1 year's time but accept if £1,001 is received today. £1,001 in 1 year's time is not as attractive as £1001 received today; this is the meaning of the term 'time value of money'.

The **logic** behind rejecting the £1,001 in 1 year's time is that you would be better off if you put £1,000 into a bank account for a year.

Many **projects** involve investing money now and receiving returns on the investment in the future; so the timing of a project's cash flows need to be analysed to see if they offer a better return **than the return an investor could get if they invested their money in other ways.**

The process of adjusting a project's cash flows to reflect the return that investors could get elsewhere is called **discounting the cash** flows or DCF.

Lecture example 2

Required

If a project involved the outlay of £1,000 today and provided a definite return of £1,001 in 1 year's time, would you accept it you could get a return of 5% on investments of similar risk?

Solution

Time	0	1
Cash flow	(1000)	1001
Discount factor	1.000	0.952
Present value	(1000)	953

Net present value = -47

This means that the project does not give a 5% return and should not be accepted

2 Net present value (NPV)

If the discounted value of the future cash flows are higher than the cost of setting up a project today, then the project has a + Net Present Value and should be accepted.

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