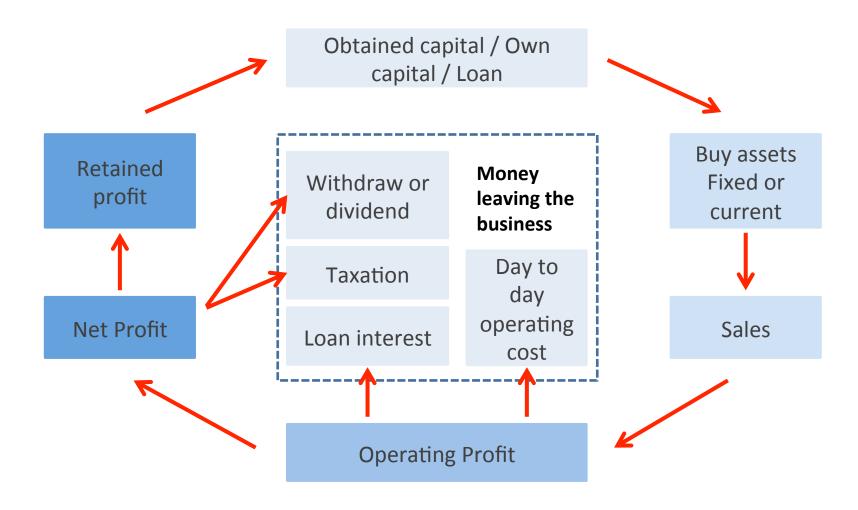
# Engineering Economics & Management

Financial Management & Economics

#### **Company Accounts**

# Flow of Money



#### **Accounting Equation**

# Flow of Money

 Capital: The money with which a business starts up and also can be the assets that are used in business.

- An Asset: Something owned by a business.
- A Liability: A debt owed by a business.

# Flow of Money

**Assets = Capital + Liabilities** 

**Capital = Assets – Liabilities** 

Capital → Owner Funds

#### **Balance Sheet**

#### **Balance Sheet**

#### FA Fixed Assets

Assets for use in long term (Property, Plant, Equipment, etc)

#### <u>CA</u> Current Assets

Assets to use in short term (Cash, Inventory, etc)

Owners Funds

LTL Long Term Liabilities

Payments due in long terms (Bank Loans, etc)

Current Liabilities

Payments due in short term (Utility Bills, etc)

#### **Cash Flow Statement**

#### **Concept of Debtor & Creditors**

9<sup>th</sup> May 16

**Debtor Days:** Time in which payment must be received from the Debtors (Such as customers)

**Creditors Days:** Time in which payments must be made to Creditors (such as suppliers)

#### **Cash Flow Statement**

£ Thousands	1	2	3	4	5	6	7	8	9	10	11	12
Sales Cash In	90	100	90	90	80	80	110	110	90	100	120	140
Cash Out:												
Wages	40	40	40	45	45	40	40	45	50	55	60	50
Materials	35	35	80	30	30	25	25	35	35	30	35	45
Overheads	10	11	11	11	11	11	11	12	12	14	14	14
Rent	30	0	0	30	0	0	30	0	0	35	0	0
Total Cash Out:	115	86	131	116	86	76	106	92	97	134	109	109
Net Cash Flow:	-25	14	-41	-26	-6	4	4	18	-7	-34	11	31
Opening Balance	0	-25	-11	-52	-78	-84	-80	-76	-58	-65	-99	-88
Closing Balance	-25	-11	-52	-78	-84	-80	-76	-58	-65	-99	-88	-57

Kent Limited designs and manufactures IT networking equipment and has debtor days of 60 days and creditor days of 90 days. The firm is considering its budgets and will produce a cash flow forecast for next year. The table below shows the expected timing of the transactions during the year. The assumptions that the company make are that wages are paid immediately; overheads and rent are paid after 30 days.

Thousands		Months										
Item	1	2	3	4	5	6	7	8	9	10	11	12
Sales	70	80	100	80	80	100	120	120	100	110	120	150
Wages	40	40	40	45	45	40	40	40	40	45	45	40
Materials	25	30	35	40	60	30	35	40	45	50	60	80
Overheads	10	10	10	12	12	12	12	12	12	12	12	14
Rent			30			30			35			35

Thousands		Months					
Item	10	11	12				
Sales	60	80	90				
Wages	30	40	45				
Materials	30	35	40				
Overheads	10	10	10				
Rent			30				

Thousands						Month	S					
Item	1	2	3	4	5	6	7	8	9	10	11	12
Sales												
Wages												
Materials												
Overheads												
Rent												
Total Cash Out												
Net Cash Flow												
Opening Balance												
Closing Balance												

Thousands		Months										
Item	1	2	3	4	5	6	7	8	9	10	11	12
Sales	70	80	100	80	80	100	120	120	100	110	120	150
Wages	40	40	40	45	45	40	40	40	40	45	45	40
Materials	25	30	35	40	60	30	35	40	45	50	60	80
Overheads	10	10	10	12	12	12	12	12	12	12	12	14
Rent			30			30			35			35

Thousands		Months					
Item	10	11	12				
Sales	60	80	90				
Wages	30	40	45				
Materials	30	35	40				
Overheads	10	10	10				
Rent			30				

Thousands						Month	S					
Item	1	2	3	4	5	6	7	8	9	10	11	12
Sales	80	90	70	80	100	80	80	100	120	120	100	110
Wages												
Materials												
Overheads												
Rent												
Total Cash Out												
Net Cash Flow												
Opening Balance												
Closing Balance												

Thousands		Months										
Item	1	2	3	4	5	6	7	8	9	10	11	12
Sales	70	80	100	80	80	100	120	120	100	110	120	150
Wages	40	40	40	45	45	40	40	40	40	45	45	40
Materials	25	30	35	40	60	30	35	40	45	50	60	80
Overheads	10	10	10	12	12	12	12	12	12	12	12	14
Rent			30			30			35			35

Thousands		Months					
Item	10	11	12				
Sales	60	80	90				
Wages	30	40	45				
Materials	30	35	40				
Overheads	10	10	10				
Rent			30				

Thousands						Month	S					
Item	1	2	3	4	5	6	7	8	9	10	11	12
Sales	80	90	70	80	100	80	80	100	120	120	100	110
Wages	40	40	40	45	45	40	40	40	40	45	45	40
Materials												
Overheads												
Rent												
Total Cash Out												
Net Cash Flow												
Opening Balance												
Closing Balance												

Thousands		Months										
Item	1	2	3	4	5	6	7	8	9	10	11	12
Sales	70	80	100	80	80	100	120	120	100	110	120	150
Wages	40	40	40	45	45	40	40	40	40	45	45	40
Materials	25	30	35	40	60	30	35	40	45	50	60	80
Overheads	10	10	10	12	12	12	12	12	12	12	12	14
Rent			30			30			35			35

Thousands		Months					
Item	10	11	12				
Sales	60	80	90				
Wages	30	40	45				
Materials	30	35	40				
Overheads	10	10	10				
Rent			30				

Thousands						Month	S					
Item	1	2	3	4	5	6	7	8	9	10	11	12
Sales	80	90	70	80	100	80	80	100	120	120	100	110
Wages	40	40	40	45	45	40	40	40	40	45	45	40
Materials	30	35	40	25	30	35	40	60	30	35	40	45
Overheads												
Rent												
Total Cash Out												
Net Cash Flow												
Opening Balance												
Closing Balance												

Thousands	Months											
Item	1	2	3	4	5	6	7	8	9	10	11	12
Sales	70	80	100	80	80	100	120	120	100	110	120	150
Wages	40	40	40	45	45	40	40	40	40	45	45	40
Materials	25	30	35	40	60	30	35	40	45	50	60	80
Overheads	10	10	10	12	12	12	12	12	12	12	12	14
Rent			30			30			35			35

Thousands		Months			
Item	10	11	12		
Sales	60	80	90		
Wages	30	40	45		
Materials	30	35	40		
Overheads	10	10	10		
Rent			30		

Thousands						Month	S					
Item	1	2	3	4	5	6	7	8	9	10	11	12
Sales	80	90	70	80	100	80	80	100	120	120	100	110
Wages	40	40	40	45	45	40	40	40	40	45	45	40
Materials	30	35	40	25	30	35	40	60	30	35	40	45
Overheads	10	10	10	10	12	12	12	12	12	12	12	12
Rent												
Total Cash Out												
Net Cash Flow												
Opening Balance												
Closing Balance												

Thousands	Months											
Item	1	2	3	4	5	6	7	8	9	10	11	12
Sales	70	80	100	80	80	100	120	120	100	110	120	150
Wages	40	40	40	45	45	40	40	40	40	45	45	40
Materials	25	30	35	40	60	30	35	40	45	50	60	80
Overheads	10	10	10	12	12	12	12	12	12	12	12	14
Rent			30			30			35			35

Thousands		Mon	ths
Item	10	11	12
Sales	60	80	90
Wages	30	40	45
Materials	30	35	40
Overheads	10	10	10
Rent			30

Thousands						Month	S					
Item	1	2	3	4	5	6	7	8	9	10	11	12
Sales	80	90	70	80	100	80	80	100	120	120	100	110
Wages	40	40	40	45	45	40	40	40	40	45	45	40
Materials	30	35	40	25	30	35	40	60	30	35	40	45
Overheads	10	10	10	10	12	12	12	12	12	12	12	12
Rent	30	0	0	30	0	0	30	0	0	35	0	0
Total Cash Out												
Net Cash Flow												
Opening Balance												
Closing Balance												

Thousands	Months											
Item	1	2	3	4	5	6	7	8	9	10	11	12
Sales	70	80	100	80	80	100	120	120	100	110	120	150
Wages	40	40	40	45	45	40	40	40	40	45	45	40
Materials	25	30	35	40	60	30	35	40	45	50	60	80
Overheads	10	10	10	12	12	12	12	12	12	12	12	14
Rent			30			30			35			35

Thousands		Mon	ths
Item	10	11	12
Sales	60	80	90
Wages	30	40	45
Materials	30	35	40
Overheads	10	10	10
Rent			30

Thousands						Month	S					
Item	1	2	3	4	5	6	7	8	9	10	11	12
Sales	80	90	70	80	100	80	80	100	120	120	100	110
Wages	40	40	40	45	45	40	40	40	40	45	45	40
Materials	30	35	40	25	30	35	40	60	30	35	40	45
Overheads	10	10	10	10	12	12	12	12	12	12	12	12
Rent	30	0	0	30	0	0	30	0	0	35	0	0
Total Cash Out	110	85	90	110	87	87	122	112	82	127	97	97
Net Cash Flow												
Opening Balance												
Closing Balance												

Thousands						Month	S					
Item	1	2	3	4	5	6	7	8	9	10	11	12
Sales	80	90	70	80	100	80	80	100	120	120	100	110
Wages	40	40	40	45	45	40	40	40	40	45	45	40
Materials	30	35	40	25	30	35	40	60	30	35	40	45
Overheads	10	10	10	10	12	12	12	12	12	12	12	12
Rent	30	0	0	30	0	0	30	0	0	35	0	0
Total Cash Out	110	85	90	110	87	87	122	112	82	127	97	97
Net Cash Flow	-30	5	-20	-30	13	-7	-42	-12	38	-7	3	13
Opening Balance												
Closing Balance												

Thousands						Month	S					
Item	1	2	3	4	5	6	7	8	9	10	11	12
Sales	80	90	70	80	100	80	80	100	120	120	100	110
Wages	40	40	40	45	45	40	40	40	40	45	45	40
Materials	30	35	40	25	30	35	40	60	30	35	40	45
Overheads	10	10	10	10	12	12	12	12	12	12	12	12
Rent	30	0	0	30	0	0	30	0	0	35	0	0
Total Cash Out	110	85	90	110	87	87	122	112	82	127	97	97
Net Cash Flow	-30	5	-20	-30	13	-7	-42	-12	38	-7	3	13
Opening Balance	0	-30	-25	-45	-75	-62	-69	-111	-123	-85	-92	-89
Closing Balance	-30	-25	-45	-75	-62	-69	-111	-123	-85	-92	-89	-76

#### Thankyou