



Prof Bruce M Mood





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7		New Fixed Assets			
8		95,000			
11	MONTHLY BALANCE SHEETS	31/12/05	01/01/06	02/28/06	03/31/06
13	ASSETS	Previous month end			
15	Cash plus Short term Securities	317,505	487,876	284,111	274,141
16	Accounts receivable:	967,500	917,076	991,475	1,090,187
17	Inventories	642,550	694,966	746,064	824,006
18	Notes receivable	0	0	0	(
19	Prepaid expenses and other current assets	8,000	10,000	0	(
20	TOTAL CURRENT ASSETS	1,935,555	2,109,917	2,021,650	2,188,335
21	Long term securities	50,000	60,000	0	(
22	Investments at cost	75,000	85,000	0	(
23	Property, Plant & Equipment				
24	At Cost	682,709	682,709	717,709	717,709
25	Accumulated depreciation & amortization	96,570	102,070	108,153	114,233
26	Net Property, plant & equipment	586,139	580,639	609,556	603,472
27	Investments/Advances to subsidiaries	10,000	12,500	0	(
28	Other non-current assets	43,500	44,567	53,500	52,500
29	Deferred charges	1,000	5,000	0	0
36	Deposits & other assets	15,000	25,000	0	
37	TOTAL ASSETS	2,716,194	2,922,623	2,684,705	2,844,303
39	LIABILITIES				
41	Accounts payables	461,500	541,223	585,130	643,386
42	Short term loans	150,000	150,000	150,000	150,000
43	Long term debt-payable within 12 months	20,000	30,000	0	
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Project Management

- Most Design projects involve many people and businesses completing many different tasks
- All this has to be controlled to ensure nothing is missed
- Successful Design projects result in high quality, cost effective solutions delivered by effective use of time and money
- Project management is the activity of planning an coordinating resources and task to achieve this goal



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Design Managing Chaos



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Design Managing Chaos



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Structure

- What is a project?
- Why does it need to be managed?
- The tools and techniques of project management
- Example project
- Recap







Why is it important to you?

- Recognised approach for control within business
- All support agencies require a plan prior to giving assistance
- Enhances you professionalism and chances of success



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What is a project?

"A set of activities undertaken to achieve a defined purpose or goal, and for which the start and completion dates are well defined"







Who are you managing?







Whet are you managing?







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How to start?

- You will need
 Business plan
 Resources, budget, timescales
 Specification
 Tasks and deliverables
- You will "probably" know the end date



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Stepped Approzich

- Divide project into manageable steps
 - Concept
 - Development
 - Prototype
 - Testing
 - Production
- List the tasks required to complete each step



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Steps and Tasks



Review points - Milestones

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Stage and Gate



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Task Relationships







PERT Chart

Probability Evaluation & Review Technique







Gant's Char's

			March	April	May	June	July	August	September
Task No	Task Name	Time							
1	Start	0							
2	Business plan	20							
3	Product Specification	10							
4	Proof of concept Model	5							
5	Concept Review	0							
6	First Customer	20							
7	Finance	20							
8	Project plan	5							
9	Concept Complete								
10	Design	25							
11	Software Programming	20							
12	Procurement	30							
13	Mock-up models	15							
14	Packaging	20							
15	Development Complete	0							
16	Build first unit	5							
17	Show to customers	0							
18	Show to backers	0							
19	Small enhancements	10							
20	Prototyping complete	0							
21	Prove it works	5							
22	Reliability testing	20							
23	Complete drawings	15							
24	Place orders for sock	5							
25	IPR applications	10							
26	Testing complete	0							
27	Launch	0							

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Pros and Cons

- Pert Charts Pros

 Highlight relationships
 Easy graphical view
- Pert Chart Cons No idea of time
- Gantt Chart Pros
 View task time on calendar
- Gant Chart Cons No easy relationship viewing



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- Identify potential sources of risk
- Determine impact
- How can risk be reduced or avoided



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Managing Risk

- Example
 - Problem product may fail safety test
 - Solution use designer with track record in this field
 - Problem insufficient time to complete design work
 - Solution identify contract resource in case it is required



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Accelerating Projects

- Start the project early
 Time often wasted on agreeing schedules, start concept
- Manage the scope Avoid "creeping elegance"
- Effective communication
 Use small teams and informal dialogue where appropriate
- Overlap certain tasks
- Outsource certain tasks







Laws of Project Management

- No project is ever installed on time, within budget, and with the same staff that started it. Yours will not be the first.
- Projects progress quickly until they become 90% complete then they remain 90% complete forever.
- When things are going well, something will go wrong.
 When things cannot get any worse, they will.

When things appear to be getting better, you have overlooked something. *Murphy was an optimist.*

- If the project specification is allowed to change freely, the rate of change will exceed the rate of progress.
- Project teams detest progress reporting because it vividly manifests the lack of progress.
- A carelessly planned project takes three times longer to complete than expected. A carefully planned project will only take twice as long.

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Summery

- Agree deliverables and fix these as much as possible
- Divide the project into manageable phases
- Breakdown theses phases into manageable tasks
- Produce Gantt & pert charts
- Identify risks
- Review project at milestones phase exits





Design Managing Chaos



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Conclusion

- Considered Managing Design
- Different perspectives
- The scope of the problems
- Some methods to manage risks
- Considered some Guidelines

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