1.1. Project Life Cycle		
Advantages:	Disadvantages:	
 Provides a structured 	 If the initiation phase has 	
approach	not been completed	
 There are defined inputs 	accurately or completely	
and outputs for each	then later stages will be	
phase	impacted	
The roles and	 Project team may be 	
responsibilities of each	forced to work within	
project team member	tight deadlines which can	
are clearly defined	have an impact on the	
 Resources can be 	quality of the output	
allocated in advance	 Constant management of 	
 The project manager can 	the process with strict	
monitor the progress of	surveillance is required	
the project		
The iterative/phase		
reviews can be carried		
out to ensure that the		
project is meeting the		
success criteria,		
objectives and		
constraints		

1.2. Interaction and Iteration between Phases		
Interaction:	How the phases link together	
Iteration:	The repeating of a phase.	
Phase	Interaction with:	Iteration with:
Initiation	Planning	-
Planning	Initiation Execution	Initiation
Execution	Planning Evaluation	Planning
Evaluation	Execution	Execution



1.3. Inputs and Outputs of each Phase		
Phase	Input	Output
Initiation	User requirementsUser constraints	 Feasibility report Legislative implications Phase review
Planning	 Feasibility report Legislative implications 	 Project plan Test plan Constraints list Phase review
Execution	Project planTest planConstraints list	Deliverable product Test results Phase review
Evaluation	 Deliverable product Test results 	Release of deliverable product User documentation Final evaluation report

- They help to identify and meet the client's requirements
- They are used to measure the success of the final deliverable product
- Nothing will be left out so the product can be used as soon as it is ready
- The product will be delivered within the agreed timescale.

1.4. Initial Project Considerations	
	 What the client expects from the final
User	product
Requirements	 The project manager refers to them to
	monitor the project
	 Used to determine if the project is
	successfully completed
Success	 Used in phase reviews
Criteria	 Should be measurable, realistic and
	relevant
	Refer to user requirements
	Refer to constraints
	• Time
Constraints/	 Resources – budget, hardware and software
Constraints/ Limitations	***************************************
Limitations	 Regulations/Legislations Security/Risk Management
	Mitigation of risks
CRAADT Coole	
SMART Goals:	Description:
Specific	Details of what the final deliverable
	product should look like / be able to do
Measurable	Able to look at progress towards the
	goals during phase reviews
Achievable	Completing the goals within the
	timeframe set by the client
Realistic	Goals which the team can work
	towards and complete
Time	Timescale of delivering the final
	product



	1. Gantt Chart
Components	Dates/Days along the top —Tasks down the left side — Blocks to represent the time allocated to each task — Milestones Dependent tasks — Concurrent tasks
Advantages	Can show estimated time schedule Tasks are shown against a time schedule Resources for each task can be shown
Disadvantages	Task time is estimated – Task dependencies can be difficult to identify Can be too simple for a complex project
2. PERT Chart	
Components	Nodes/sub-nodes — Time/duration lines Task sequences — Dependent tasks Concurrent tasks — Can show critical path
Advantages	Can show slack time so resources can be reallocated — Enables timescales to be planned more precisely — Tasks can be scheduled as dependent or concurrent — Manages unpredictable activities
Disadvantages	Can be confusing — Needs skill and knowledge to create — Can be too simple for a large or complex project
	3. Critical Path
Components	Nodes/sub-nodes — Time/duration lines Task sequences — Dependent tasks Concurrent tasks
Advantages	Helps to control cost and time Manages well defined activities Suitable for non-research projects Suitable for reasonable time estimates
Disadvantages	Not suitable for research and development projects – Needs skill and knowledge to create

	1. Visualisation Diagram
	 Multiple images/graphics – Size/
Components	position of images/graphics - Position/
Components	style of text - Fonts - Annotations
	- Colours/themes
	 Data can be quickly understood — Easy
Advantages	to spot emerging trends/patterns - Non-
	specialists can understand the data shown
Disadvantages	 Not appropriate for a large or complex
	project
5. Flow Chart	
	 Start point – End point – Decisions
Components	 Processes – Connecting lines – Directing
	arrows
	 Useful for a small project with a small
Advantages	number of tasks and decisions – No
	specialist knowledge required to
	understand the flow chart
Disades stores	Does not show time allocated for each
Disadvantages	task – Tasks are shown sequentially so
	does not show concurrent tasks
	6. Mind Map
_	- Nodes/sub-nodes - Branches/
Components	connecting lines – Key words – Colours
	- Images
_	 Easy to add ideas/tasks at any time
Advantages	- Can provide focus on the tasks to be
	completed – Shows dependent tasks
	 No time schedule – Can be difficult for
Disadvantages	others to understand – Does not show
	concurrent tasks

1.5. Project Planning Tools (Formal / Informal)

7. Task List	
Components	Tasks/sub-tasks — Start date — End date — Duration — Resources
Advantages	Can provide focus on the tasks to be completed – No tasks will be missed out
Disadvantages	 Should not be used for a large or complex project

1.5. Software's to create Project Plans	
Software	Project Plan
Project	Gantt chart
Management	 PERT Chart
Software	 Critical path
Spreadsheet	Simple Gantt chartTask list
Word Processor	Task listMind mapFlow chart
Desktop Publishing	Visualisation diagram Mind map

1.5. Project Management Software		
Advantages:	Disadvantages:	
 Real-time changes can 	 Can be expensive 	
be made	 There is a possibility 	
 Project plans can be 	that a simple project	
share electronically	can become very	
 Project plans can 	complicated	
include allocated	 Can be time-consuming 	
resources	to set up a project	
 Reports can be 	 May need some 	
generated	knowledge, training or	
	experience to use	