BTEC L3 Engineering Unit 6 – pre-planning

Planning for the BTEC L3 Engineering Unit 6 is dictated by the 12 hour supervised assessment period and your college timetable. Taking clues from Pearson's Sample Assessment Material (the egg timer task) and assuming the timetable allows 2 x 1½ hour sessions per day over 4 days, this is my first attempt at a pre-planning document.

Monday				Tuesday				Wednesday				Thursday		
Session 1 90 minutes	B R E A K	**Session 2** 90 minutes		B R E A K			B R E A K			B R E A K	
			Session 3 90 minutes		**Session 4** 90 minutes	**Session 5** 90 minutes		**Session 6** 90 minutes				
									Session 7 90 minutes			**Session 8** 90 minutes

Using the "Sample Assessment Materials (SAMs) Issue 2"

Assignment Stage	Description	Suggested time	Suggested time in minutes
Activity 1	Task planning and system design changes	1 hour 30 minutes	90 mins
Activity 2	Analysis of brief	1 hour 20 minutes	80 mins
Activity 3	System design	2 hours 25 minutes	145 mins
Activity 4	System assembly and programming	2 hours 25 minutes	145 mins
Activity 5	System testing and result analysis	1 hour 20 minutes	80 mins
Activity 6	System in operation	3 hours	180 mins
Cross Check	Total (Cross Check)	12 hours	720 mins (12 hours)

Strategy:
Use the first 10 minutes of each session for 'Activity 1 Task planning and system design changes' using up 80 minutes. Add the remaining 10 minutes to the last session (Session 8) to collate and check all paperwork.
Activity 2 - Analysis of brief is autonomous and needs to be performed in one continuous operation.
Activities 3, 4 and 5 - System design, System assembly and programming, System testing and result analysis need to run almost in parallel to some extent.
Activity 6 - System in operation – should be more or less autonomous if all goes well.

Session by Session (first attempt) planning

Session 1	
Activity 1	**Activity 2**
Task planning and system design changes	Analysis of brief
10 minutes	**80 minutes**

Session 2	
Activity 1	**Activity 3**
Task planning and system design changes	System design
10 minutes	**80 minutes** (145 mins allocated, 80 minutes used, so 65 minutes remaining)

Session 3		
Activity 1	**Activity 4**	**Activity 3**
Task planning and system design changes	System assembly and programming	System design
10 minutes	**15 minutes** (145 mins allocated, 15 minutes used, so 130 minutes remaining)	**65 minutes**

Session 4		
Activity 1	**Activity 4**	**Activity 5**
Task planning and system design changes	System assembly and programming	System testing and result analysis
10 minutes	**60 minutes** (145 mins allocated, 75 minutes used, so 70 minutes remaining)	**20 minutes** (80 mins allocated, 20 minutes used, so 60 minutes remaining)

Session 5		
Activity 1	**Activity 4**	**Activity 5**
Task planning and system design changes	System assembly and programming	System testing and result analysis
10 minutes	**40 minutes** (145 mins allocated, 115 minutes used, so 30 minutes remaining)	**40 minutes** (80 mins allocated, 60 minutes used, so 20 minutes remaining)

Session 6			
Activity 1	**Activity 4**	**Activity 5**	**Activity 6**
Task planning and system design changes	System assembly and programming	System testing and result analysis	System in operation
10 minutes	**30 minutes**	**20 minutes**	**30 minutes** (180 mins allocated, 30 minutes used, so 150 minutes remaining)

Session 7	
Activity 1	**Activity 6**
Task planning and system design changes	System in operation
10 minutes	**80 minutes** (180 mins allocated, 110 minutes used, so 70 minutes remaining)

Session 8		
Activity 1	**Activity 6**	**Activity 1**
Task planning and system design changes	System in operation	Task planning and system design changes
10 minutes	**70 minutes**	**10 minutes**