**Task 2: Electronic System Student Guide Headings**

***System Planning***

**Problem** What, why, who, where.

**Research** of a specific example.

**Specification** At least 4 qualitative ***and*** 4 quantitative system specifications (a list of 8).

Electronic parameters (e.g. time, frequency, current, voltage, power (inc. tolerances)

***System Development***

**Inputs and Outputs**

**Full system (labelled) block diagram.**

**Sub-system1 Sub-system2 etc**

**1. Circuit diagram with Component values.**

**1a. Alternative Circuit.**

**2. Specification and calculations**

**3. Test procedure with test equipment and diagram**

**4. Prediction of test outcomes**

**5. Test results** *(table and graph)*

**6. Analysis of tests results**

**7. Comparison to predictions and specification**

**8. Impedance matching**

***System Realisation***

**Full System Circuit Diagram**

**Complete component list.**

**Circuit (neat, colour coded etc.)**

**Risk assessment.**

**Full system testing plan, including diagram with TE in situ.**

**Full system test data (tables, graphs etc.)**

**Analyse test data compared with specification of full system.**

**Comprehensive user guide.**

**Explain interfacing between any two SS’s.**

***Evaluation***

**Final System** Overview of final system performance

Compare with initial specification.

Use correct terminology throughout.

Say how well the blocks work and how well signals transfer between blocks.

Three improvements for the final system.

Details of how and why these are improvements.

A table of a test results

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