

Test Document Assessment Guidelines

NOTE: This rubric has a dual purpose: (1) to give a guideline for EE493-EE494 students about the criteria and overall expectations from the Test Documents and (2) to establish a common guideline for us, the design studio coordinators, in evaluating the reports. Note that the rubric, being only a guideline at this point for all of us, should not be perceived as a strict set of requirements for the content of a successful report. However, we hope that the detailed comments below include a large number of clues to serve the preparation of such a report. An attempt was made to reflect the expectations of all design studio coordinators in the rubric. However, each corresponding coordinator will still be evaluating freely based on his/her best judgment.

	Excellent (9-10)	Good (7-8)	Marginally satisfactory (5-6)	Needs improvements (unsatisfactory) (1-4)
Test scenario and procedure of each critical subsystem	1) The aim of the test is clearly defined. 2) Measurement devices are listed and no missing measurement exists. 3) Ground truth is clearly defined for ALL measurement devices. 4) Proper operations of the measurement devices are verified with known references (ground truth). 5) The expected performance outcome of the system is clearly identified. 6) All parameters the system is sensitive to, are clearly defined including input parameters. 7) A detailed description of the test environment is given. 8) A detailed description of the test procedure is given.	1) The aim of the test is defined. 2) Measurement devices are coarsely listed. 3) Operations of some measurement devices are verified against their own ground truth. 4) Expected performance outcome is coarsely defined. 5) Some parameters to which the test is sensitive are given. 6) The test environment is coarsely defined. 7) Some test procedures are given.	1) The aim of the test is defined. 2) Measurement devices are coarsely listed. 3) Ground truth is not correctly identified such that the verification is inconclusive for some measurement devices. 4) Parameters to which the test is sensitive are not sufficiently introduced. 5) The test environment and test procedures are described in an arm waving manner.	1) The aim is given as a short title. 2) Measurement devices list is highly incomplete. 3) Wrong ground truth are defined or ground truth is missing. 4) Verification of measurement devices is not properly done or missing. 5) Parameters are scarce and incomplete. 6) Test environment is shortly mentioned. 7) Test procedures are coarsely given and highly incomplete.

<p>Test table for each critical subsystem</p>	<p>The empty test table includes all components with proper units: number of trials, range of each parameter, step size for changing each parameter, expected performance, actual performance, error in the performance.</p>	<p>The empty test table includes most components with proper units: number of trials, range of each parameter, step size for changing each parameter, expected performance, actual performance, error in the performance.</p>	<p>The empty test table has an insufficient number of trials and few parameter step sizes. Actual performance and error in the performance columns exist.</p>	<p>The test table has unrealistic parameter steps and range. Only actual performance is envisaged without identifying the expected performance and no error consideration is present in the table.</p>
<p>Methods to be used for analyzing the results in each critical subsystem</p>	<p>1) All methods that will be used for analyzing the results are presented: a) for the system/subsystem performance, b) for the sensitivity to parameters based on the measured errors. 2) All tools for presenting the results (plots, diagrams, tables, etc.) to document and present your results are proposed.</p>	<p>1) Some methods that will be used for analyzing the results are presented: a) for the system/subsystem performance, b) for the sensitivity to parameters based on the measured errors. 2) Some tools for presenting the results (plots, diagrams, tables, etc.) to document and present your results are proposed.</p>	<p>1) Some methods for the subsystem performance are awkwardly presented. 2) Methods for the sensitivity of some parameters are given. 3) Tools for presenting the results are incomplete.</p>	<p>1) Some methods for the subsystem performance are missing. 2) Some methods for the sensitivity of parameters are missing. 3) Tools for presenting the results are missing, unacceptable, unconventional or severely incomplete.</p>
<p>Test sheet general format</p>	<p>1) Descriptions of tables and discussions are given neatly in detail. 2) Rare grammatical/ mathematical errors.</p>	<p>1) Some descriptions and tables are neat. 2) Grammatical/ mathematical errors are frequent.</p>	<p>1) Descriptions are sketchy and tables are sloppily designed. 2) Grammatical/ mathematical errors are frequent.</p>	<p>1) Descriptions are extremely insufficient. Tables are heavily sloppy. 2) There are severe grammatical/ mathematical errors.</p>