1. Introduction, which includes

a brief description of the background of the task

a brief description of the topic/task/assignment

1. Background

Desribing the current situation of technology

1. Theoretical fundaments (literature evaluation)

Describing existing solutions and state of the art

Comparing solutions – analyzing the existing technologies in terms of usage, pros/cons

Evaluating the literature in terms of how you can use the delivered information

1. Design of experiments

Planning the solution on the basis of the theoretical knowledge

Feasibility check of plans

Setting up a clear plan of solution with all necessary details and materials

Describe the necessary materials to realize solution (plans, flow sheets tc.)

Describe the steps of how you want to realize solution

Describe in detail the experiments/calculations which you need to carry out to check solution in terms of use/benefit

1. Description of the realization of your solution

Report all steps of the realization

Describe all used devices and applications needed for the realization

Document the steps of solution

Describe changings necessary compared to theoretical approach

Describe problems and short-cuts during the realization

1. Description of the outcome of experiments calculations

Describe how the solution was tested

List the results in detail

Describe problems which occurred by carrying out the tests

Describe exactly any issues which may have had an influence to the validity of data and results

1. Evaluation and analysis of the outcomes

Consequences of the data in general and in terms of solution

Analysis of the framework of validity (are there restrictions)

Failure analysis – critical analysis and evaluation of failure ranges, accuracy and insecurities