Format for Thesis Writing

1. **Abstract: precise and brief**
2. **Introduction**
   - briefly introduce the “concept” of the work.
   - stress on the importance and potential or application of the study.
     ("why" focusing on this subject)
   - a brief literature survey.
   - a short summary of “what” and “how” to the investigation.
3. **Literature review**
   - an extensive and intensive survey of all the previous work related to the current study up to today.
   - can be divided to categories according to the date (time) of the investigation or the type (kind) of the work, or a combination of both.
4. **Theoretical background & analytical approach**
   - give a detailed description of the theory, formulation in related work.
   - try to bridge or expand other’s formulation into your work. If possible, propose your own model as a combination of other's investigation or even construct a new one.
   - show in details the physics, mechanism and principles underlying the measurement and characterization technique you employ in the data acquisition. In addition, the precision and accuracy of the instrumental work should be discussed.
5. **Results and Discussion**
   - Process the data effectively
- Organize your data in a way that most of them look promising.

- Try to find an internal consistency, if any. If not, dare to discuss any discrepancies in between.

- An external consistency is also needed to make comparison with other investigation results.

- More work and effort should be stressed on "discussion", not only a mere report of data.

6. **Summary**

- make story short in a few sentences.

- Give the interesting, important and significant outcome of the study.

7. **References**

- give a detailed information of the references.

- Refer to the format in the journal you plan to submit

  (e.g. J. Am. Ceram. Soc. require the most detailed description of the reference writing)

8. **Future works or Suggestions**

- point out the work you would like to continue if more time is allowed

- demonstrate possible further work or any perspectives which is promising to carry out.