

**Put the title here**

a report  
*submitted by*

**Your name**

**Your roll number**

for Research Proposal Meeting

*under the guidance of*

**Guide's Name**  
**Designation of Guide, IIT Madras**

**Co-Guide's Name**  
**Designation of Co-Guide**



**DEPARTMENT OF MECHANICAL ENGINEERING**  
**INDIAN INSTITUTE OF TECHNOLOGY MADRAS**  
**Month 20XX**

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## List of Figures

# 1 Introduction

Give a brief introduction of your problem. This should include, why the subject you are planning to study is of interest. This can be about half a page to one page.

# 2 Review of Literature

Give a thorough review of the literature. Use bibtex to cite references. Remember to section your literature into various topics, logically. This should discuss at least 50-60 articles and range over a wide period. It should contain older references, and also ones which are very recent. This section can be about 2-3 pages.

# 3 Gaps in literature

Based on the literature review, highlight using a bulleted list, what has not been addressed. About half a page.

- Point 1
- Point 2
- Point 3
- Point 4

# 4 Objectives

Frame your objectives which fill or address the gap in the literature. Start by saying; “In order to address the shortcomings..... the following objectives are framed...” or something on those lines. This section can be about half a page.

- Broad objective 1
  - Any specific details you want to give on objective 1 and similar details if needed for other objectives as well.
- Broad objective 2
- Broad objective 3

# 5 Methodology

Details of the methods[1], either computational or experimental should go here. Once again, use subsection to logically differentiate each aspect which the method/experiment should addresses. This can be about 3-4 pages.

## 6 Preliminary results

Put whatever you have done here[2]. EXPLAIN the results clearly. Show comparisons with existing works. Clearly show that your method/ideas etc. is likely to work. Make excellent plots and explain them clearly. Some of these plots should be there in your presentation as well. Do not cut/paste images from other papers, unless you are showing some sort of comparison. This section can be about 3-4 pages.

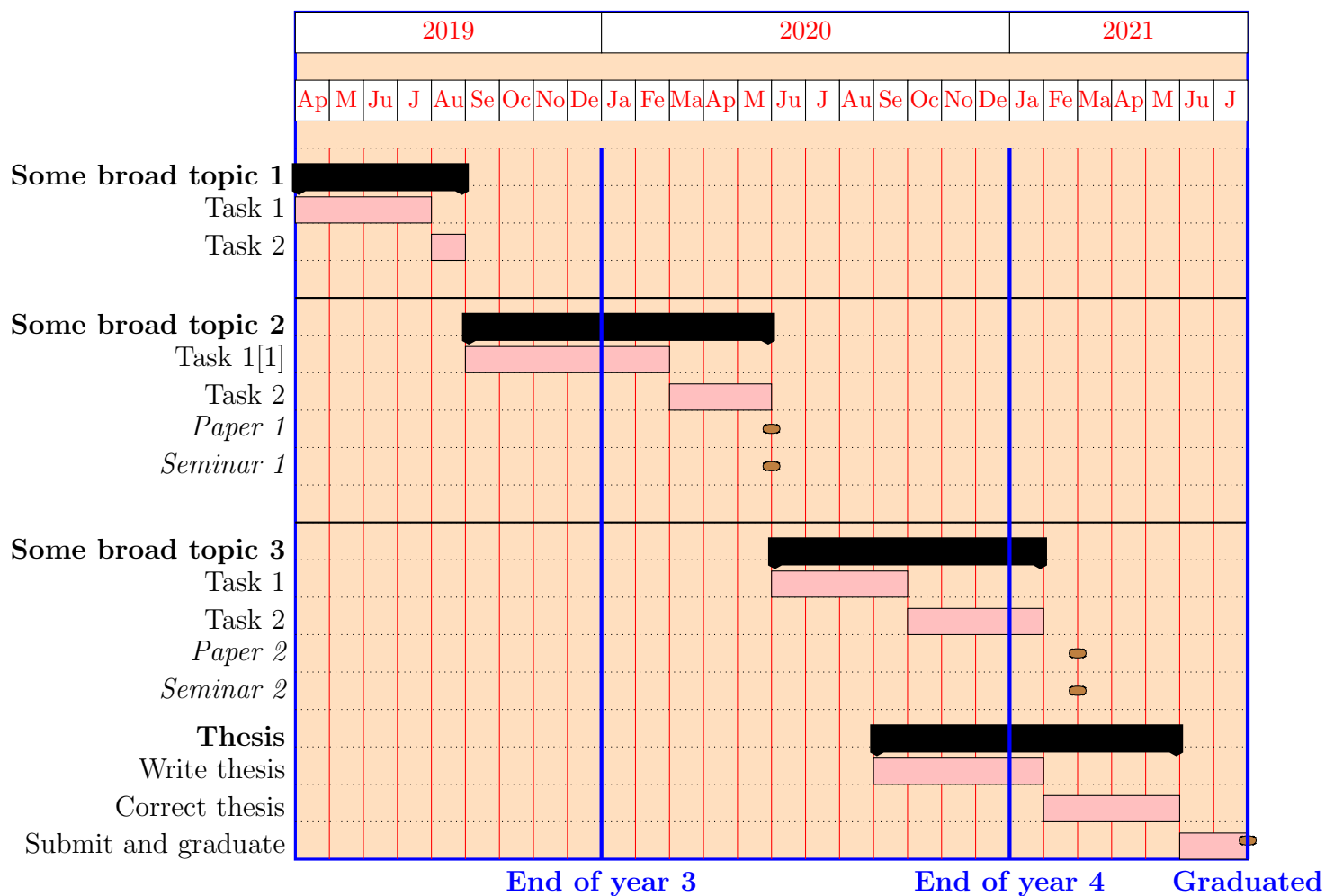
## 7 Future work plan

Elaborate on what you will do in the remaining time and how you plan to do it. This can be about half a page.

## 8 Time-line

Put a Gantt chart which clearly indicates (1) when you will give your first seminar (2) first paper (3) second seminar (4) conference (5) second paper (6) Thesis writing and graduation. This must show how you will spend your time over several month blocks. Other details may also be included. Take this opportunity to clearly plan your work. Estimate simulation times, make room for errors, etc. This can be about half a page.

The following gantt chart is an example. You can easily modify it. You can also use the standalone file "gantt\_chart.tex" to generate "gantt\_chart.pdf", which you can insert as an image here. These files are also in the same folder. You should use this gantt chart in the presentation as well.



## References

- [1] A. Einstein, “On the movement of small particles suspended in stationary liquids required by the molecular kinetic theory of heat,” *Ann D Phys*, vol. 17, p. 1, 1905.
- [2] J. D. Eshelby, “The determination of the elastic field of an ellipsoidal inclusion, and related problems,” *Proceedings of the Royal Society of London. Series A. Mathematical and Physical Sciences*, vol. 241, no. 1226, pp. 376–396, 1957.