

# CS 5594: Blockchain Technologies

## Guideline for Final Report

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You can use the LaTeX/MS Word template for your report at <https://www.ieee.org/conferences/publishing/templates.html>.

Your reports must be formatted for US letter (not A4) size paper. The text must be formatted in a **two-column** layout, with columns no more than 9.5 in. tall and 3.5 in. wide. The text must be in **Times font, 10-point, with 11-point line spacing**. You are encouraged to use the IEEE conference proceedings templates. LaTeX submissions should use IEEEtran.cls version 1.8b. All reports will be automatically checked for conformance to these requirements.

You can use [www.overleaf.com](http://www.overleaf.com) to prepare your technical report.

There is no page limit, but it must be **at least 9 pages** (without references).

You are free to use MS word as well if you prefer. However, notice that MS word is not designed for scientific report.

**Report outline:** Below is the report outline for your reference. Your report **must** include all these 9 sections in your final report, and the subsections in each section can be flexible.

### 1. Introduction

- Motivate and explain your problem statement
- Research goals and objectives

### 2. Related work

- Summarize relevant work on the selected topic

### 3. Preliminaries

- Brief background on the selected topic
- Building blocks being used

### 4. Model

- System model, threat model, security model
- System and security assumptions (if any)

### 5. Research Methodology

- Explain approach(es) to address the problem
  - Present high-level idea and intuition of these approaches
  - Describe in detail protocol designs/algorithms

- Analyze protocol designs (complexity, security, vulnerability, potential impact)

## 6. Implementation and Experiments

- Implementation detail
  - Explain in detail how the research is implemented.
- Evaluation metrics
  - Indicate metrics to evaluate the performance of the proposed research. For example, end-to-end delay, communication, computation, I/O overhead, accuracy
- Experimental configurations
  - Parameter selection
  - Dataset being used
  - Counterpart selection for comparison
- Experimental results
  - Provide experimental results based on your selected evaluation metrics, and comparison among different works.
  - Give your insights and analysis about the experiment results

## 7. Conclusion

- Summary what you have done in this research, what is the lesson being learned.

## 8. Statement of work (mandatory!)

- Explain the contributions made by each team member.

## 9. References

- You should capture at least 25 – 30 references in total.

**IMPORTANT NOTES:** do NOT copy and paste from the research articles that you refer to. The final report must be your own writing and work. We will run plagiarism checker and the academic misconduct behaviors will be reported.