

# A Comprehensive L<sup>A</sup>T<sub>E</sub>X Template for *Informatics in Education* Using BibT<sub>E</sub>X and natbib

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**Abstract.** This document provides a more comprehensive INFEDU L<sup>A</sup>T<sub>E</sub>X example than a minimal skeleton. It intentionally contains common elements of an article (sections, subsections, tables, figures, equations, lists, appendices, and references) with neutral explanatory text.

**Key words:** INFEDU, L<sup>A</sup>T<sub>E</sub>X template, BibT<sub>E</sub>X, APA style, natbib.

## 1. Introduction

The purpose of this file is to demonstrate the *structure* of a paper and show idiomatic LaTeX usage that compiles cleanly under the INFEDU class.

In author–date styles, use narrative citations for grammatical integration (e.g., Lamport (1994)) and parenthetical citations for supporting references (e.g., (Knuth, 1984)).

## 2. Document structure

### 2.1. Sections, subsections, and subsubsections

Use standard sectioning commands (`\section`, `\subsection`, `\subsubsection`) to create a clear hierarchy.

#### 2.1.1. Do not force layout

Avoid manual spacing commands (`\vspace`, `\hspace`) and avoid using `\\` to break lines inside paragraphs. Let the journal class handle layout.

### 2.2. Cross-references

Use `\label` and `\ref` for cross-references. For example, Table 1 is an example table and Figure 1 is a placeholder figure. Cross-references update automatically when numbering changes.

Table 1  
Example table with aligned columns.

Item	Count	Score
A	12	0.80
B	5	0.35
C	9	0.62

Placeholder figure. Replace this box with `\includegraphics`.

Figure 1. Example figure caption. Describe what the figure shows.

### 3. Tables

Table 1 demonstrates a basic table with booktabs.

### 4. Figures

Figures can be external graphics (PDF/PNG) or simple placeholders while writing. The example below needs no external image files.

### 5. Mathematics

The INFEDU class loads `amsmath`. Inline math looks like  $f(x) = x^2$ . Displayed equations are typically left-aligned in INFEDU (the class loads `fleqn`).

$$E = mc^2. \tag{1}$$

Equation 1 is a single-line example. For multi-line displays, use `align`:

$$\hat{\beta} = (X^\top X)^{-1} X^\top y, \tag{2}$$

$$\hat{y} = X\hat{\beta}. \tag{3}$$

### 6. Lists

Use lists to present steps or grouped items.

#### 6.1. Bulleted list

- Use `itemize` for unordered points.

- Keep items parallel in grammar and structure.
- Avoid overly long list items when possible.

## 6.2. Numbered list

1. Write the manuscript.
2. Run the correct compilation sequence.
3. Check cross-references and the reference list.

## 7. Citations and references

This section shows citations of different entry types:

- Journal article: Smith and Chen (2020).
- Book chapter: (Doe, 2019).
- Conference paper: (Miller et al., 2022).
- Web resource: (World Health Organization, 2023).

When quoting, add a locator (page/section): (Lamport, 1994, p. 44).

## 8. Conclusion

This template illustrates common constructs needed for INFEDU submissions. Replace the placeholder text with your own content while keeping the structure and the reference workflow.

## Acknowledgements

Write acknowledgements here (optional). If no acknowledgements are needed, omit this environment.

## Funding

List funding sources here (optional). If there is no funding to declare, omit this environment.

## A. Appendix: A longer table (example)

If you have supplemental material, place it in an appendix.

Table 2  
Example appendix long table.

What this row demonstrates	Notes
Cross-page tables	Long tables may span pages.
Fixed-width columns	Use <code>p { }</code> for wrapping text.
References in appendices	You can cite here as well (e.g., (American Psychological Association, 2020)).

References

American Psychological Association (2020). *Publication Manual of the American Psychological Association*. American Psychological Association, Washington, DC, 7 edition.

Doe, J. (2019). A chapter example used in a template document. In Miller, A. and Nguyen, L., editors, *Handbook of Example Research*, pages 101–120. Example Press, New York, NY.

Knuth, D. E. (1984). *The TeXbook*. Addison-Wesley, Reading, MA.

Lamport, L. (1994). *LaTeX: A Document Preparation System*. Addison-Wesley, Reading, MA, 2 edition.

Miller, A., Nguyen, L., and Patel, S. (2022). A conference paper example for demonstrating references. In *Proceedings of the 10th International Conference on Examples*, pages 55–62, New York, NY. ACM.

Smith, J. A. and Chen, M. (2020). A minimal example article for demonstrating author–date citations. *Journal of Demonstration Studies*, 12(3):45–67.

World Health Organization (2023). Example web resource used in a template. Online.

**A. Author** is a placeholder biography. Replace this text with the actual biography information required by the journal.

**B. Contributor** is another placeholder biography entry.