

# Documentation of the **fiche** Class

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<b>Course</b>	LaTeX Documentation

## Résumé

This document presents the LaTeX **fiche** class, designed to provide a consistent structure for your pedagogical sheets for the FMR "filière". It explains how to use the class and its main features.

## 1 Introduction

The **fiche** class is a custom LaTeX class based on **article**. It helps maintain a consistent format for student reports while managing metadata automatically. Essential packages for math, figures, and references are also preloaded.

## 2 Preloaded Packages

The **fiche** class automatically loads several packages. **Do not modify them manually.**

### 2.1 Core Packages

- `fontenc`, `inputenc`, `lmodern`, `microtype` : Typography.
- `amsmath`, `amssymb`, `amsthm`, `mathtools` : Math environments and symbols.
- `graphicx`, `xcolor` : Figures and colors.
- `enumitem` : List formatting.
- `csquotes` : Proper quotation handling.
- `tikz` : Vector graphics with libraries `arrows.meta`, `positioning`, `calc`.

### 2.2 Layout Packages

- `geometry` : Page margins.
- `hyperref` : Clickable links.
- `cleveref` : Smart cross-references.

### 2.3 Language Support

- `babel` : Automatic language selection (English or French).

### 2.4 Additional Packages

If necessary, you can load additional packages ; simply check for any conflicts with previous packages.

## 3 Using the Class

### 3.1 Class Options

The class `fiche` supports two options for language :

- `english` (default)
- `french`

Example :

```
\documentclass[french]{fiche}
```

### 3.2 Metadata

Define the following metadata using the provided commands :

- `\title{Title of the report}`
- `\author{Author Name}`
- `\date{Date}` (optional)
- `\discipline{Discipline}`
- `\ficheyear{Year}`
- `\course{Course Name}`

### 3.3 Displaying Metadata

Use `\ficheinfo` after `\maketitle` to display a table with metadata.

### 3.4 Custom Macros

You can define additional macros. For example, the `\TODO{text}` macro highlights tasks in red :

```
\TODO{Write the conclusion}
```

Result : [TODO: Write the conclusion]

## 4 Complete Example

```
\documentclass[english]{fiche}
\title{Sample Report}
\author{Student Name}
\date{\today}
\discipline{Computer Science}
\ficheyear{2025}
\course{Course Name}
```

```
\begin{document}
\maketitle
\ficheinfo
```

```
\begin{abstract}
Short summary of the report.
```

```

\end{abstract}

\section{Introduction}
Write your introduction here.

\section{Conclusion}
Write your conclusion here.
\end{document}

```

## 5 Figures

Use the `figure` environment with `\includegraphics` (Figure : [1](#)).

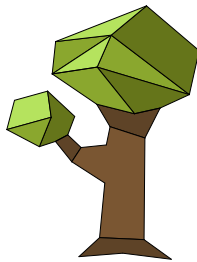


FIGURE 1 – Example figure.

## 6 Bibliography

You can cite references using `\cite`, either with BibTeX or BibLaTeX.

You can cite like this~`\cite{example_ref}`.

Result : You can cite like this [\[1\]](#).

## 7 Best Practices

- Always use `\maketitle` followed by `\ficheinfo` at the beginning.
- Use `biblatex` or `thebibliography` for references.
- Avoid manually loading packages already included in the class.

## 8 Conclusion

The `fiche` class should be used to create structured reports for the FMR program. It fixes layout and loads common packages for math, figures, and references.

## Références

[1] Author Name, *Title of the Example Reference*, Journal Name, Year.