

## Plano de Ensino

### 01. Dados de Identificação da Disciplina:

<b>Semestre:</b>	2022.2	<b>Curso:</b>	Matemática
<b>Turma:</b>	A	<b>Código Componente:</b>	IME0479
<b>Componente:</b> IME	INTRODUCTION TO LATEX	<b>TIKZ</b>	<b>UA Responsável:</b>
<b>Carga Horária:</b>	64	<b>UA Solicitante:</b>	IME
<b>Teórica/Prática:</b>	64/-	<b>EAD/PCC:</b>	-/-
<b>Horários:</b>	35t45	<b>Docente:</b>	Prof(a) Ole Peter Smith

### 02. Ementa:

Introduction to LATEX for scientific and academical documents. Mathematical drawings with TikZ: Geometrical constructions and planar curves.

### 03. Programa:

#### 1. LATEX:

- (a) Basic formatation.
- (b) Lists and tables.
- (c) Ddocument types.
- $\alpha$ . Papers;
- $\beta$ . TCC, theses o dissertations;
- $\gamma$ . Exams and other academical documenstns;
- $\delta$ . Slides (Beamer).
- (d) Page layout. Document structure.
- (e) Textual elements, enumeration.
- (f) Formulas and mathematica equations.
- (g) Compartimentalization of documentos using `\input` or `\include`.
- (h) Enumarations, titles y references.
- (i) Semi-automatization of lists exercises;
- (j) Criatings commands and environments.

#### 2. TiKZ:

- (a) Figures and graphical formats: `includegraphics` and `tikzpicture`;
- (b) Venn diagrams.
- (c) Coordenates. Distances and numbers (variables).
- (d) Performing calculos LATEX.
- (e) Drawing geometrical entities: points, lines, circles, etc.
- (f) Geometrical constructions.
- (g) Drawing geometrical points of triangles.
- (h) Circles, tangents and chords.
- (i) Planar curves: Frenet system, Taylor's formula. Curvature, evoluts e parallel curves.
- (j) Clipping.
- (k) 3D drawings: `tikz-3d`.

### 04. Cronograma:

### 05. Objetivos Gerais:

### 06. Objetivos Específicos:

### 07. Metodologia:

### 08. Avaliações:

### 09. Bibliografia:

- [1]: KNUTH, D.E. The TEXBook (1st Edition). Addison-Wesley Professional, 1984.
- [2]: LAMPORT, L.B. LATEX: A Document Preparation System (2nd Edition). Addison-Wesley Professional, 1985.
- [3]: OETIKER, T.; PARTL, H.; SCHLEGL, E. Uma não tão pequena introdução ao LATEX 2  $\epsilon$ ; Versão 4.20.1, 18 de setembro de 2007.
- [4]: (Disponível em PDF. Traducción portuguesa por Alberto Simões.) TANTAU, T. The Tik Z and PGF Packages: Manual. Institut f"ur Theoretische Informatik, Universit"at zu L"ubeck, 2007.
- [5]: SMITH, O.P. SMTC: Show me the Code. LATEX & Friends. Available in: <http://www.olesmith.com.br>, 2020.
- [6]: Acesso em 08/06/2021.

### 10. Bibliografia Complementar:

[1]: LATEXDocumentation Available in: <https://pt.overleaf.com/learn>. Acesso em 08/09/2022.

[2]: Learn LATEXem 30 minutes. Available in: [https://pt.overleaf.com/learn/latex/Learn\\_LaTeX\\_in\\_30\\_minutes](https://pt.overleaf.com/learn/latex/Learn_LaTeX_in_30_minutes). Acesso em 08/09/2022.

[3]: MITTELBACH, F; GOOSENS, M. et. al.: The LATEXCompanion (2nd edition). Addison-Wesley, 2004.

[4]: TEXEXAMPLE. Available in: <https://texample.net/>. Acesso em 06/09/2022.

[5]: WIKIBOOKS. LaTeX/Mathematics. Available in: <http://en.wikibooks.org/wiki/LaTeX/Mathematics>, 2020.

[6]: Acesso em 25/08/2020.

#### 11. Livros Texto:

[1]: LAMPORT, L.B. LATEX: A Document Preparation System (2nd Edition). Addison-Wesley Professional, 1985.

[2]: KNUTH, D.E. The TEXBook (1st Edition). Addison-Wesley Professional, 1984.

#### 12. Horários:

Dia	Horário	Sala Distribuida
3 <sup>a</sup>	T4	105, CAC (20)
3 <sup>a</sup>	T5	105, CAC (20)
5 <sup>a</sup>	T4	105, CAC (20)
5 <sup>a</sup>	T5	105, CAC (20)

#### 13. Horário de Atendimento do(a)s Professor(a):

#### 14. Professor(a):

Ole Peter Smith. Email: [ole@ufg.br](mailto:ole@ufg.br), IME

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Prof(a). Aline De Souza Lima