

## FICHA 2 - PLANO DE ENSINO

|  |   |                          |   |                            |   |  |
|--|---|--------------------------|---|----------------------------|---|--|
| CÓDIGO:<br><b>SIN240</b>   | DISCIPLINA:<br><b>EMERGING TRENDS IN INFORMATION MANAGEMENT</b> |                          | TURMA:<br><b>B</b>  |                            |   |  |
| NATUREZA:<br><b>Optativa</b>   |   |                          | MODALIDADE:<br><b>Totalmente EAD</b>                      |                            |   |  |
| CH TOTAL:<br><b>30h</b>  |   |                          | CH Prática como Componente Curricular (PCC):<br><b>0h</b> |                            | CH Atividade Curricular de Extensão (ACE):<br><b>0h</b> |  |
| Padrão (PD):<br><b>30h</b>   | Laboratório (LB):<br><b>0h</b>                                  | Campo (CP):<br><b>0h</b> | Orientada (OR):<br><b>0h</b>                              | Estágio (ES):<br><b>0h</b> | Prática Específica (PE):<br><b>0h</b>                   | Estágio de Formação Pedagógica (EFP):<br><b>0h</b> |
| FICHA 2 PREENCHIDA PELO DOCENTE:<br><b>JOSÉ SIMÃO DE PAULA PINTO</b> |   |                          |   |                            |   |  |

Criação: 27/6/2023

Modificação: 27/6/2023

### EMENTA

Trends in electronic and computational technologies.

### JUSTIFICATIVA PARA OFERTA EAD:

A oferta da disciplina na modalidade a distância foi aprovada conforme ajuste curricular e atende à distribuição de 20% da carga horária do curso prevista no Projeto Pedagógico, com base na LDB e na Resolução nº 72/10 CEPE, com o objetivo de estimular as e os discentes no processo de aprendizagem. A oferta de carga horária a distância também está pautada no artigo 2º do Decreto nº 9.057 de 25 de maio de 2017, e na Lei nº 13.146/2015 - Lei Brasileira de Inclusão da Pessoa com Deficiência. Assim, está alinhada com a promoção da acessibilidade e inclusão, conforme orientado pela Superintendência de Inclusão, Políticas Afirmativas e Diversidade (SIPAD) da UFPR. Somam-se a isso, ainda, as estratégias para assegurar a acessibilidade digital tecnológica e educacional disponíveis na UFPR VIRTUAL, o ambiente virtual de aprendizagem (AVA) da UFPR).

### PROGRAMA

| <i>week</i>                          | <i>date</i>     | <i>Contents</i>  |
|--------------------------------------|-----------------|--|
| <b>24/07/2023 to 29/07/23 – SBPC</b> |                 |  |
| <b>1</b>                             | <b>05/08/23</b> | <i>Introduction to the discipline and content / presentation of the base text; start of reading of the text<br/>Automation in the 4th industrial revolution: grasping the complexity</i> |



|                                  |          |  |
|----------------------------------|----------|--|
| 2                                | 12/08/23 | <i>Reading and interpretation - Automation in the 4th industrial revolution: grasping the complexity; The promise, the risks and threat of AI and robots</i> |
| 3                                | 19/08/23 | <i>Exercise in LMS</i>   |
| 4                                | 26/08/23 | <i>Reading and interpretation - Applications of AI and robots in information work</i>  |
| 5                                | 02/09/23 | <i>Reading and interpretation - Applications of AI and robots in information work</i>  |
| 6                                | 09/09/23 | <i>Exercise in LMS</i>   |
| 7                                | 16/09/23 | <i>Reading and interpretation - The challenges and opportunities</i>   |
| 8                                | 23/09/23 | <i>Exercise in LMS</i>   |
| 9                                | 30/09/23 | <i>Reading and interpretation - Competencies needed to take the opportunities presented by AI and robots</i>   |
| 10                               | 07/10/23 | <i>Exercise in LMS</i>   |
| 11                               | 14/10/23 | <i>Reading and interpretation - Strengths and vulnerabilities of the profession</i>  |
| 16/10/2023 to 20/10/2023 – SIEPE |          |  |
| 12                               | 21/10/23 | <i>Exercise in LMS</i>   |
| 13                               | 28/10/23 | <i>Research</i>  |
| 14                               | 04/11/23 | <i>Research</i>  |
| 15                               | 11/11/23 | <i>Research presentation and discussion</i>  |
| 16                               | 09/12/23 | <i>Final examination</i>   |

## OBJETIVO GERAL

*To understand and discuss the impact of AI, machine learning, automation and robotics on the information professions*



## OBJETIVOS ESPECÍFICOS

***Recognize the growth of applications with artificial intelligence and robotics in society***

***Understand the use of artificial intelligence applications in the field of information and related ethical issues***

***Research and suggest forms of interaction between the various professionals involved, with special attention to those focused on information***

## PROCEDIMENTOS DIDÁTICOS

***Studies in a virtual environment, with research, reading texts and interaction.***

***Surveys and/or critical summaries posted in the virtual learning environment.***

***Communication system: messages and permanent forum of the discipline available in the LMS***

***Tutoring: through messages on the LMS - The teacher himself acts as a tutor, asynchronously.***

***Didactic material: bibliography indicated in the subject and suggested for each activity, in addition to materials available in the LMS and research carried out by the student on the internet and in the virtual library.***

***Infrastructure: UFPR's LMS ([ufprvirtual.ufpr.br](http://ufprvirtual.ufpr.br))***

***Environment: the Information Management course provides for the environment of its students in the period, in the freshman week. For the initial view of distance education there is the course <https://ufprvirtual.ufpr.br/course/view.php?id=9724>. If you still have doubts about its use, it is recommended to view 'Conheça a UFPR Virtual': <http://www.cipead.ufpr.br/portal1/index/ufpr-virtual/>***

***Technical support: Technical support for UFPR's LMS (CIPEAD/PROGRAD).***

## FORMAS DE AVALIACAO

***Arithmetic mean of two grades -  $[(grade1 + grade2)/2]$  :***

- ***Grade 1: average of grades for activities and participation throughout the course in the LMS***
- ***Grade 2: presentation of the proposed research***

***Frequency control: attendance will be evaluated by delivering the proposed activities, on the proposed dates, with a minimum attendance of 75% of the classes / delivery of 75% of the activities, on the proposed dates, being mandatory for approval.***

## BIBLIOGRAFIA BÁSICA



COX, Andrew M. **The impact of AI, machine learning, automation and robotics on the information professions**. A report for CILIP. Londo: CILIP, 2021. Availabe at: <<https://www.cilip.org.uk/page/researchreport>>. Accessed in: january 30th, 2023.

AYDOGAN, Neslihan; CHEN, Yiu Por. **Social Capital and Business Development in High-Technology Clusters**. An Analysis of Contemporary U.S. Agglomerations. New York: Springer-Verlag, 2008. Disponível em: <<https://link.springer.com/content/pdf/10.1007%2F978-0-387-71911-5.pdf>>

CHEN, Hsinchun; REID, Edna; SINAI, Joshua; SILKE, Andrew; GANOR, Boaz (ed.). **Terrorism Informatics**. Knowledge Management and Data Mining for Homeland Security. Boston: Springer-Verlag US, 2008. Disponível em: <<https://link.springer.com/content/pdf/10.1007%2F978-0-387-71613-8.pdf>>

COWTON, Christopher; HAASE, Michaela. **Trends in Business and Economic Ethics**. Berlim: Springer-Verlag Berlin Heidelberg, 2008. Disponível em:<<https://link.springer.com/content/pdf/10.1007%2F978-3-540-79472-1.pdf>>

## BIBLIOGRAFIA COMPLEMENTAR

JACKON, Paul D. **Becoming Virtual**. Knowledge Management and Transformation of the Distributed Organization. Berlim: Physica-Verlag Heidelberg, 2008. Disponível em:

<<https://link.springer.com/content/pdf/10.1007%2F978-3-7908-1958-8.pdf>>.

REBSTOCK, Michael; FENGEL, Janina; PAULHEIM, Heiko. **Ontologies-Based Business Integration**. Berlim: Springer-Verlag Berlin Heidelberg, 2008. Disponível em:

<<https://link.springer.com/content/pdf/10.1007%2F978-3-540-75230-1.pdf>>.

SPOLSKY, Joel. **More Joel on Software**. Apress, 2008. Disponível em:

<<https://link.springer.com/content/pdf/10.1007%2F978-1-4302-0988-1.pdf>>

TSIHRINTZIS, George A.; VRIVOU, Maria; HOWLETT, Robert J.; JAIN, Lakhmi C. **New Directions in Intelligent Interactive Multimedia**. Berlim: Springer-Verlag Berlin Heidelberg, 2008. Disponível em:

<<https://link.springer.com/content/pdf/10.1007%2F978-3-540-68127-4.pdf>>.

WEIGL, Tobias. **Strategy, Structure and Performance in a Transition Economy**. An Institutional Perspective on Configurations in Russia. Betriebswirtschaftlicher Verlag Dr. Th. Gabler | GWV Fachverlage GmbH, Wiesbaden, 2008. Disponível em:

<<https://link.springer.com/content/pdf/10.1007%2F978-3-8350-5562-9.pdf>>.

## CRONOGRAMA DE AULAS

Não disponível

