FUNDAÇÃO GETULIO VARGAS

DEPARTAMENTO ..:TECHNOLOGY AND DATA SCIENCE (TDS)
CURSO.....:MESTRADO E DOUTORADO EM ADMINISTRAÇÃO DE EMPRESAS
.....:MESTRADO E DOUTORADO EM ADMINISTRAÇÃO PÚBLICA E GOVERNO
..... MESTRADO PROFISSIONAL EM POLÍTICAS PÚBLICAS
DISCIPLINA .....: FOCAL TOPICS IN INFORMATION SYSTEMS: SUSTAINABILITY
PROFESSORES .....: EDUARDO HENRIQUE DINIZ (TDS)
DURAÇÃO .....: 2023-2

SYLLABUS

INTRODUCTION

The relationship between technology and sustainability has been increasingly paradoxical in our century. If on one hand the technological development has brought great advances in the quality of life and productivity in many regions of the world, on the other hand its omnipresence in all spheres of human life and the different levels of penetration in different areas has also been a source of tensions and criticism. Recent research in the information systems (IS) field point to a positive contribution of ICT - information and communication technologies - for sustainable development, in particular its necessary alignment with the Sustainable Development Goals (SDGs) of the United Nations, in various areas of activities, such as fighting poverty and inequalities, improving health, education, employment and many other topics. The positive effect is mainly through increased access to information and reduction of communication costs. Internet and mobile phones have great potential for improving health and education systems and in fighting regional and social inequalities, as well as proctecting the environment. However these benefits are not being fully realized for a number of reasons of a different nature, which can be analyzed from different perspectives. In this interdisciplinary course we discuss the different roles that ICT can play to sustainable development. The focus is the Brazilian scenario, but during the course will be extensively discussed examples of other cultures and territories. This theme, which has already been internationally known as ICT for Good (alignment of Information and Communication Technologies with the Sustainable Development Goals), has produced extensive bibliography that will be widely used during the course.

OBJECTIVES

Os objetivos de aprendizagem da disciplina estão apresentados na tabela abaixo, demonstrando como os mesmos contribuem para os objetivos do CMCD.

The course learning goals are presented in the table below, showing how they contribute to the learning goals related to the objectives of CMCD.

GRAU DE CONTRIBUIÇÃO / LEVEL OF CONTRIBUTION *			
Forte / High	Intermediário / Medium	Reduzido / Low	Nenhum / None
●●●	●●○	●○○	○○○

CMCD Objectives	**Course learning goals**	**Level of Contribution ***
Qualitative research methods	Discussion on methods is marginal to the cases presented	●○○
Quantitative research methods	Discussion on methods is marginal to the cases presented	●○○
Knowledge of research themes (Master) and theory (Doctorate)	Discussion on the roles of ICT for sustainable development	●●●
Design and Development Research	Discussion related to design a research on the topic of the course	●●○
Relevance (Master and Doctorate) and innovation (Doctorate) in research	Discussion the implications of the digital society and innovative ways necessary to research it	●●○

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Development of academic papers	Students finish the course by proposing one paper with focus in publication	●●●
Outros objetivos da disciplina / Other course learning goals:		

METHODOLOGY

The course will be taught through lectures, case discussions, seminars presented by the students and readings to promote discussions on the adopted literature. The course is structured in 7 meetings covering different topics related to the focal topic of ICT and sustainable development..

GRADING

Participation	20%
Seminar:	20%
Pre-Project	20%
Final Project:	40%

Participation will be based on frequency and contribution of each student to discussions performed during sessions. Previous reading of the papers related to each session is essencial for promoting a higher level discussion expected during the course.

Seminar will happen in every class on the topic of the day, starting from the second class. Students must present one case related to the subject of the session in a given date. Students must bring a case of her/his choice related to the subject of the session. Basic literature will be provided but it is expected that students bring new sources to enrich the discussion on the subject being covered.

Final Project is expected to be a literature review (paper format, in English) of one topic related to the main subject of the course. Students must propose their Project at the end of the first month in a format of pre-project. Final Project is expected to be delivered one week after the last session. Projects can be presented by one single student (or more, depending on the number of students enrolled)

CONTENT

Each of the classes of the course will cover the subjects related to the main topic of the course. Bellow the list of subjects proposed:

1. ICT and SDGs: overview of the field
2. Theorizing ICT & Sustainability
3. Researching ICT & Sustainability
4. ICTs, SDGs & Grand Challenges
5. Frugal ICT Innovation & Decoloniality in IS Research
6. Hacker Ethics & Citizen Data Science
7. ICT & Extreme Events (social, economic and environmental)

BIBLIOGRAPHY

To be announced