SYLLABUS

Course	365858 – **Tópicos Avançados em Planejamento dos Transportes** **(Advanced Topics in Transport Planning)**
WorkLoad	30 hours **Credits** 2 credits
Level	Master and PhD
Type	Optional
Concentration Area	Logistics, Operation and Transportation Planning
Professor	Neantro Saavedra Rivano (neantro@unb.br)
Semester	2021/2 (January 17th, 2022, to May 5th, 2022)
Class Meetings	Monday: 10:00 AM – 11:50 AM
Location	SG-12 PPGT team at Microsoft Teams
Course Objective	New technologies, especially Information and Communication Technologies (ICT) are transforming transportation as we know it in front of our eyes. New tools of analysis are also being developed to respond to this trend. The purpose of this seminar is to expand our vision, especially that of our graduate students, to prepare for this new scene in the transport area and to become active participants in it. Given this ambitious objective, the seminar will deal with a wide and diverse set of topics.
Teaching Method	Seminar format, with presentations by the instructor, students (single or organized in groups), and external guest speakers. Sessions will begin with group discussion of previously selected readings. Main language is English but presentations in Portuguese are also possible.
Course Topics	What follow is a (non-exhaustive) list of possible topics for the sessions. The ordering of the topic below may be altered depending on the availability of speakers and on the level of preparation of students making presentations 1. Autonomous vehicles 2. Intelligent transport systems 3. Data analytics for transport systems 4. Topics in urban mobility 5. Smart mobility 6. Applications of Artificial Intelligence 7. Smart cities 8. Agent-based modelling 9. Traffic control systems 10. 5G and IoT in transport systems
Evaluation Criterion	**1 – EVALUATION** The student will be evaluated through a combination of the following criteria: class participation (CP); topic presentation (seminar), both oral (SO) and written (SW); and class attendance.

2 – FINAL SCORE

Given by the following formula:

FS = 0.2 CP + 0.4 (SO + SW)

3 – CONDITIONS FOR APPROVAL

To be approved, the student must meet the following conditions:

- FS $\geq$ 5.0;
- frequency $\geq$ 75%.

Attendance of the students will be recorded by their presence in the virtual class at Microsoft Teams.

4 – FINAL GRADE

The final grade will be assigned in accordance with the following criterion:

Grade	Final Score (FS)
SS	FS $\geq$ 9.0
MS	$7.0 \leq FS \leq 8.9$
MM	$5.0 \leq FS \leq 6.9$
MI	$3.0 \leq FS \leq 4.9$
II	$0.1 \leq FS \leq 2.9$
SR	FS = 0.0

Bibliography

References will be added later as we move forward with the subjects of this discipline

1. TO BE ADDED

2. TO BE ADDED

3. TO BE ADDED

4. TO BE ADDED

5. TO BE ADDED

Brasília, December 10th, 2022.   Prof. Neantro Saavedra Rivano