

Vehicle-2-X:Communication and Control Oral Exam (12.02.2020)

Name:

Matriculation Number:

1. Could you draw the flow-velocity graph of the macroscopic traffic model? What does each section mean?
2. Could you explain Newell's car following model on a time-space diagram using the terms δ and τ
3. Why should the data rate be lower for lower SNR?
4. Could you explain what modulation and demodulation are? What is a symbol?
5. What are two types of phases in WAVE communication standard? How are the channels coordinated?
6. What are the two objectives of a platooning algorithm? Could you explain it using mathematical terms used in the lecture?
7. Could you explain the mechanism how BSM is sent periodically on Veins?