

Intelligent Transport Systems

1. What are the key words of ITS (based on definitions)?
2. What is the pyramid principle to manage transport problems?
3. What are the priority areas and priority actions of EU ITS directive?
4. Draw the figure of classification of ITS static systems (based on information services)!
5. Explain the static, collective, on-board systems!
6. Explain the static, individual, on-board systems!
7. Draw the figure of classification of ITS dynamic systems (based on information services)!
8. What are the tasks of dynamic ITS systems?
9. Explain the dynamic, collective, road infrastructure systems (Network control: objectives, information loop)!
10. Explain the types and principles of Variable Message Signs!
11. Explain the dynamic, collective, on-board systems – transport radio systems and emergency call systems!
12. Draw the database of pre-trip travel information systems!
13. Classify the Navigation systems!
14. What are the objectives of Intelligent vehicle systems, and what are the levels of driving support?
15. Make a list of intelligent vehicle systems! What are the tasks of fully automatic driving?
16. What are the features of bike sharing system generations?
17. Classify the ITS systems based on transport modes!
18. What are the tasks of a mobility management system?
19. Choose one of the mobility management systems and explain it?
20. Explain the types of open toll collection systems!
21. Explain the types of closed toll collection systems!
22. What are the requirements of an automatic toll collection system?
23. Draw the figure of control of Public transport!
24. Explain the vehicle positioning systems of public transport!
25. Explain the meaning of Demand responsive transport!
26. What is the process of DRT systems?
27. Classify the DRT systems!