

CE 774 - Traffic Management and Design (2022)

Assignment - 4

Instructions: (i) Start each question on a new page, (ii) All questions and answers should be written by hand, (iii) Scan the assignment in the same order and submit as a single pdf file, (iv) through the google form that will be shared by the TA, (v) sketches, graphs, and diagrams are highly desired.

1. List and describe the benefits and limitations of public transportation over private models of transport: at least three each (1-2 page).
2. List and describe any four ITS user services that can enhance the use of public transportation in a city (1-2 page).
3. What is an ITS architecture and describe any one component of a typical architecture (1 page).
4. Describe any one example/case study illustrating ITS standard, other than FASTag (1 page).
5. Suppose government decides to change toll collection from the current RFID based system (fixed toll both location) to a GPS based toll collection system (no physical toll booth, but collect based on actual distance travelled), describe various ways this can be evaluated? (2 pages)