**Reference textbooks and literature for ACE050**

**Topic: Transportation planning**

Transportation Planning Handbook 4th Edition by ITE (Institute of Transportation Engineers) (Author), Michael D. Meyer (Author)

<https://silo.tips/download/the-four-step-model-uci-its-wp-michael-g-mcnally>

**Topic: Geometric design**

A policy on geometric design of highways and streets.

**Topic: Traffic characteristics and fundamental diagram**

<https://www.fhwa.dot.gov/publications/research/operations/tft/chap2.pdf>

**Topic: Capacity and Level of service**

Highway Capacity Manual (2010) [**https://www.trb.org/Main/Blurbs/164718.aspx**](https://www.trb.org/Main/Blurbs/164718.aspx) **(Freeway capacity and LOS:** Chapter 10, Chapter 11**; Intersection capacity and LOS:** Chapter 18**)**

**Topic: Fundamental diagram and shockwave**

Introduction to Traffic Flow Theory: An introduction with exercises (*open source textbook*)

<https://victorknoop.eu/research/book/Knoop_Intro_traffic_flow_theory_edition2.pdf>

**Topic: Traffic flow theory**:

<https://www.victorknoop.eu/research/papers/chapter_vanwee.pdf>