

# Traffic flow models

## Professor

Alessandro Farina

## Email

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## Institution

University of Pisa,  
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## General Information

The course will deal with the main concepts and models related to traffic flows. The course will be held in hybrid mode, online and in presence (at prof. Farina office at the University of Pisa), and will cover the following topics:

- Main concepts of traffic flow: speed, flow and density and their relationship; the fundamental diagram.
- Uninterrupted flow: travel times of motorways and of roads with single carriageway.
- Interrupted flow: waiting time at signalized and unsignalized intersections and at roundabouts; coordination of signalized intersections; level of service of intersections.
- Shock waves.
- Car following models.

## Materials

No material is needed, the course slides will be provided to the students by the professor.

## Schedule

Dates	Description
Date: 13 February h 9-13	Mixed: Online and in presence
Date: 14 February h 9-13	Mixed: Online and in presence
Date: 20 February h 9-13	Mixed: Online and in presence
<b>Total 12 Hours - 2 Credits</b>	

For any information [www.indicee.unifi.it](http://www.indicee.unifi.it) - dott-dicea@unifi.it