



COURSE: TRANSPORT BASICS

TEACHER: Prof. Umberto Petruccelli

e-mail: umberto.petruccelli@unibas.it

website: <http://www2.unibas.it/petruccelli/home.html>

Language: Italian

ECTS: 9

n. of hours: 90

Academic year: 2014-2015

Campus: Potenza

Semester: 2

TOPICS

Interaction between way and single vehicle, between way and contemporary vehicles, between transport demand, supply, related territory and necessary resources.

TEACHING METHODS (please tick one or more options)

- Theoretical lessons
 Tutorials in classroom
 Tutorials in laboratory
 Project works
 Technical visits

Other activities (please specify) _____

TEXTBOOKS

- On-line notes of the teacher
- Russo Frattasi A. e G.G., (1989) *Note di economia e pianificazione dei trasporti*, CLUT, Torino
- Ricci, S., (2011), *Tecnica ed economia dei trasporti*, Hoepli, Milano
- de Dios Ortúzar J., Willumsen L. G. (edizione italiana a cura di Cerchi E., e Meloni I.) (2004), *Pianificazione dei sistemi di trasporto*, Hoepli, Milano
- Cantarella G.E. (2001), *Introduzione alla tecnica dei trasporti e del traffico con elementi di economia dei trasporti*, UTET, Torino
- De Luca M. (1992), *Tecnica ed economia dei trasporti*, CUEN, Napoli
- Orlandi, A. (1990), *Meccanica dei Trasporti*, Pitagora, Bologna

ON-LINE EDUCATIONAL MATERIAL

web address: <http://www2.unibas.it/petruccelli/home.html>

LEARNING OUTCOMES

Knowledge of the land vehicles behavior and relationships affecting the performance and costs of transport systems and the interaction between supply and demand

REQUIREMENTS

None

EVALUATION METHODS (please tick one or more options)

- Intermediate verifications
 Written examination(*)
 Discussion of a project work
 Practical test
 Oral examination

Other methods (please specify): (*) Written examination (exemption) is an option

DETAILED CONTENT

- Identification of transport modes, systems, services and related performance
- Interaction between way and single vehicle: elements of terrestrial locomotion mechanics
- Interaction between way and contemporary vehicles: elements of vehicle flow theory and functional characteristics of the main transport modes (road, rail, cableways, and non-conventional systems)
- Interaction between transport demand, supply and related territory: modeling of the transport supply and hints on the analysis and forecast of the transport demand
- Interaction between transport and economic resources: the transport market and the cost analysis.

SEMINARS BY EXTERNAL EXPERTS YES NO

FURTHER INFORMATION
