Title of the whole course: Transportation System Design I

Safety and accident reduction

Name of the Educational Test Site:

DIMET: Università Mediterranea di Reggio Calabria, Facoltà Ingegneria

Objective of the whole course

The course aims to provide theory and methods for analysis of supply, demand and supply-demand interaction (assignment) in passenger and freight transportation systems. Furthermore, it provides elements for transportation planning at strategic, tactical and operational level at urban, regional and national scale. A specific module concerns the interaction between transportation systems and safety.

Content of the whole course

Passenger and freight transport:

Supply, path choice and assignment models for road and transit system

Supply, path choice and assignment models for freight system

Tactical DSS: T-Model, EMME2

Transportation plans:

Tactical and Operational plans:

- Safety plans, Urban Traffic plans, Mobility plans

Strategic plans:

- National, Regional and Basin plans
- Sectorial plans: safety, modal, accessibility

Which part of PORTAL (project results) was taken up?

Teaching and study documentation concerning key topic: 'Safety and accident reduction'

Which PORTAL material was used?

PORTAL report and transparencies. This documentation was rearranged and integrated with additional (own) transparencies in order to adapt for didactical purposes.

Separate / existing course	Existing course
Optional / compulsory course	Compulsory course for students who want to specialize in transportation studies, optional for other students
Name of the corresponding curricula	Civil Engineering
Participants' level	Level 6
Type of input	lecture
Number of participants	28
Timing	April / June 2002
Exercises	No
Language	Italian / English

Name of the teacher	Antonino Vitetta
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Language of lecturer	Italian, English
Fields of expertise	Traffic flow analysis, assignment models and algorithms, Transport modes, network design models and algorithms, safety