COURSE DESCRIPTION
FREIGHT AND LOGISTIC

SSD: TRASPORTI (ICAR/05)

DEGREE PROGRAMME: TRANSPORTATION ENGINEERING AND MOBILITY (P55)
ACADEMIC YEAR 2022/2023

COURSE DESCRIPTION

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GENERAL INFORMATION ABOUT THE COURSE

INTEGRATED COURSE: NOT APPLICABLE
MODULE: NOT APPLICABLE
CHANNEL: FG A-Z
YEAR OF THE DEGREE PROGRAMME: II
PERIOD IN WHICH THE COURSE IS DELIVERED: SEMESTER I
CFU: 9

REQUIRED PRELIMINARY COURSES

No preparatory teaching

PREREQUISITES

No prerequisites are requested

LEARNING GOALS

The course aims to provide student with basic knowledge on freight transport system (both for supply and demand side), in order to analyse the interplay between logistics and freight transports and to plan and assess freight transport systems.

EXPECTED LEARNING OUTCOMES (DUBLIN DESCRIPTORS)

Knowledge and understanding

The course is intended to provide students with methodological tools needed to design and assess freight transport systems (e.g. mathematical models and quantitative methods) and valuable insights on supply chain management.

Applying knowledge and understanding

Students are expected to have acquired skills in planning and governance of freight transports systems at different levels (urban, regional, national, international). Also, the students should be able to use the acquired tools to develop critical and autonomous analysis on freight transport providers and logistics operators.

COURSE CONTENT/SYLLABUS

The course is composed by four main parts:

·Basic knowledge on logistics and supply chain management, with an in-depth analysis of the market of freight transport services.

·Detailed illustration of the supply transport model taking into account different transport mode (e.g. road, rail, maritime, air) with a focus on intermodal transports and freight terminals.

·Detailed analysis of freight transport demand modelling in terms of market trends and data sources at different levels (i.e. national and international).

·Description of main quantitative methods to plan and design freight transport systems, from different perspectives (e.g. private operators and public bodies) and by different geographical levels.

READINGS/BIBLIOGRAPHY

Cascetta E. (2006). Modelli per i sistemi di trasporto, teoria e applicazioni. UTET

Lecture slides available on www.docenti.unina.it

TEACHING METHODS OF THE COURSE (OR MODULE)

Teaching forms mainly consist of lectures, exercises and seminars.

EXAMINATION/EVALUATION CRITERIA

a) Exam type

- ☐ Written
- ☑ Oral
- ☐ Project discussion
- ☐ Other

In case of a written exam, questions refer to

- ☐ Multiple choice answers
- ☐ Open answers
- ☐ Numerical exercises

b) Evaluation pattern