



FICHA TÉCNICA DE LA ASIGNATURA

Datos de la asignatura	
Nombre completo	Global Transportation
Código	DIM-MMS-521
Impartido en	Máster Universitario en Ingeniería Industrial + Máster in Motorsport, Mobility and Safety [Segundo Curso] Master in Motorsport, Mobility and Safety [Primer Curso]
Nivel	Master
Cuatrimestre	Semestral
Créditos	3,0 ECTS
Carácter	Obligatoria
Departamento / Área	Departamento de Ingeniería Mecánica
Responsable	Francisco J. López Valdés

Datos del profesorado

DATOS ESPECÍFICOS DE LA ASIGNATURA

Contextualización de la asignatura

Aportación al perfil profesional de la titulación

This course will focus on the demands and characteristics of current mobility. The course will provide an overview of how safe mobility systems are implemented worldwide. The course will cover existing initiatives to implement road safety observatories in different regions/countries of the world. A large proportion of the course will focus on special seminars discussing innovative forms of mobility.

Prerrequisitos

Although there are not mandatory prerequisites, prospective students are recommended to learn basic concepts of injury prevention, restraint systems and biomechanics.

Competencias - Objetivos

BLOQUES TEMÁTICOS Y CONTENIDOS

Contenidos – Bloques Temáticos

1. Global mobility and safety - (14 h, Maria Segui-Gomez)
 1. Mobility characteristics in different world regions
 2. Road traffic injuries as a global health problem
 3. History and progress of road safety measures: Europe and Global
2. Road transport of goods – (4 h, Jaime Baquedano, Miriam)
3. Vehicle safety in Latin American countries: the case of LatinNCAP (2 h, Gonzalo Casas).



COMILLAS

UNIVERSIDAD PONTIFICIA

ICAI

ICADE

CIHS

GUÍA DOCENTE

2024 - 2025

4. Safety and mobility of motorcycles (4 h, Sergio Crespo, ANESDOR)
 1. Contribution of motorcycles and mopeds to mobility
 2. Vehicle safety regulations
5. Maritime transport (2h, Alfredo Pardo de Santayana, IME)
6. Railway transport (2h, Carlos Mateo, Bombardier)
7. Air transport (2h, Pablo Torrejón, ENAIRE)

METODOLOGÍA DOCENTE

Aspectos metodológicos generales de la asignatura

EVALUACIÓN Y CRITERIOS DE CALIFICACIÓN

Standard evaluation at the end of the term:

- Course project on global mobility and safety (50%)
 - More specifically, 50% on final group paper and presentation, 10% mid-term test, 15% student reflection on class learnings, and 25% active classroom and group participation.
- Quizzes from individual lectures (50%)

Additional evaluation during July (Retake):

- Course project on global mobility (50%)
- Quizzes from individual lectures (50%)

BIBLIOGRAFÍA Y RECURSOS

Bibliografía Básica

- Materials published by several international and national organizations, reporting on the status of road safety around the world (updated versions to be provided by course instructors).
- [Rune Elvik](#), [Truls Vaa](#), [Alena Hoye](#), [Michael Sorensen](#). The Handbook of Road Safety Measures: Second Edition, Emerald Group Publishing, 2009