

CONTACT

Academic information:

Miriam Peñalba Otaduy

Phone: +34 943 018655

Email: miriam.penalba@ehu.eus

Administrative information:

Jaione San Román

Phone: +34 943 018688

Email: jaione.sanroman@ehu.eus

PARTNER WITH A COOPERATION AGREEMENT

vicomtech
ik4 research alliance

TCC
Guzotekako Geroak
Uzotekako Geroak
Lurrikako Geroak

d-bus

euskotren

dinaycon
SISTEMAS

metro bilbao

10 años
mlc-its-euskadi
Clúster de movilidad y logística
Mugierikatu eta logistika sistemak

PESA

Posalako Portua
Puerto de Pasala
Pasaia, Pasaia Agintaria
Santitas Pasaia de Pasala

Donostiako Udala
Ayuntamiento de
San Sebastián

transitia

ALGEPOSA

adif

ets

indra

B
Bilbao
UDALA
AYUNTAMIENTO

idom



Universidad
del País Vasco

Euskal Herriko
Unibertsitatea

MDe

Master eta Doktorego Eskola
Escuela de Máster y Doctorado
Master and Doctoral School



MASTER IN TRANSPORTATION SYSTEMS

www.ehu.eus

www.ehu.eus/mastersistemastransporte



INTRODUCTION & OBJECTIVES

Transport systems are vital in today's society. Their sustainable management is a complex issue in which technical, economic and environmental aspects are integrated. For this purpose, new technologies as mobile APPs indicating how much time is left before the bus arrives, GPS device indicating its position or the smart card payment system, are essential tools (Smart Transportation, Smart Cities). In addition to these technological changes, there is a rising global market moving goods and people worldwide.

All this results in an increasingly sophisticated Transport Systems demanding professionals with a multidisciplinary training in this area.

ENTRY PROFILE

The program is intended for graduates in technical disciplines (engineering and computing) or fields close to logistics and business management.

It is compulsory to have a minimum English level of B2 (FCE).

CAREER OPPORTUNITIES

Companies developing technological devices or implementing management solutions based on new technologies (Smart Transportation, Intelligent Transportation Systems).
Logistics and transport operators (freight and passengers).
Consultancy for planning, development and maintenance of transport infrastructure. Environmental impact consultancy
Administrative or government positions concerned with mobility and transport.
PhD studies.

ABOUT THE COURSE

Teaching place:
School of Engineering of Gipuzkoa (San Sebastian).

Web site of the master:
www.ehu.eus/mastersistemastransporte

Teaching type:
On-site.

Teaching language:
English and Spanish.

Approximate fees:
1.950-2.150 €.

Calendar:
October-July.

TRAINING SYLLABUS English (E) / Spanish (S) / Basque (B)

Subject	Language	ECTS
Compulsory courses		
• Innovation management in the area of Transport	E	3
• Introduction to Transportation Systems	S	6
• Principles of transport modelling	E	4,5
• Probability and statistics concepts and tools applied to Transport	E	3
• Quality improvement systems and models in the area of Transport	E	3
• Transportation Systems: regulation of transport policy and planning, regulation of contracting, environmental protection measures and their enforcement	S	4,5
• Transportation Systems: Transport Policy and Infrastructure	S	6
• Research methodology	E	3
Practical Training (compulsory)	E/S	6
Optional courses (9 ECTS)		
• Communication architectures for ITS services	E	4,5
• Computational intelligence in the area of Transport: data mining and optimisation heuristics	E	4,5
• Positioning, communication and digital mapping systems	E	4,5
• System dynamics	S	4,5
Master's Thesis	E/S/B	12

TEACHING LOAD

Compulsory subject courses 39 Credits ECTS	Optional subject courses 9 Credits ECTS	Research Projects 12 Credits ECTS	Total 60 Credits ECTS
--	---	---	---------------------------------