



الجامعة اللبنانية
UNIVERSITE LIBANAISE



TEMPUS IV
Project n. 544460 – HiT4Med

Highway and Traffic Engineering for Mediterranean Countries:

**A Challenging Master Program in Highway and Traffic Engineering
for Mediterranean Countries**

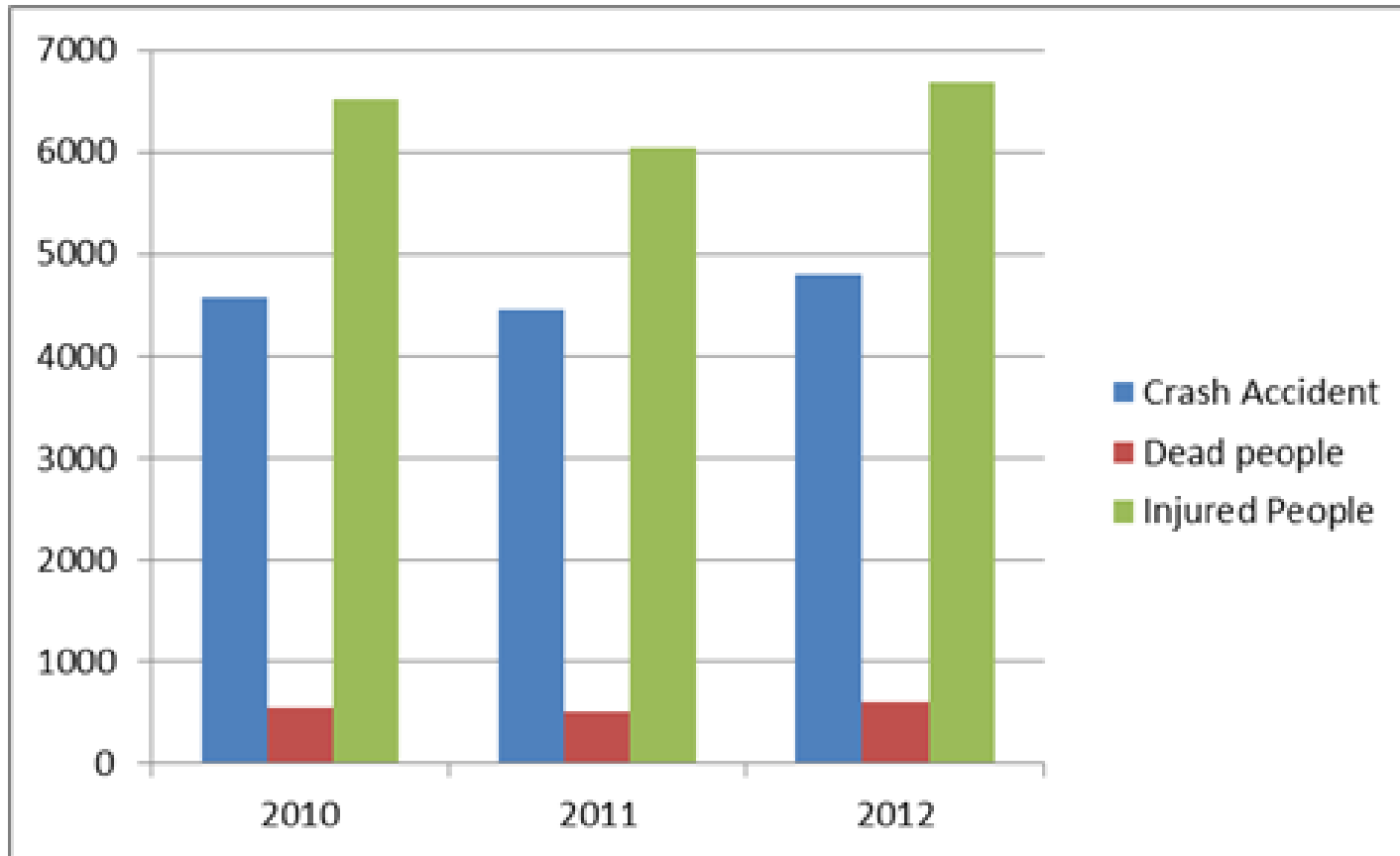
Clovis FRANCIS and Rafic YOUNES

www.hit4med.eu

- University of Naples Federico II, UniNA, Italy (coordinator)
- University of Catania, UniCT, Italy
- National Technical University of Athens, NTUA, Greece
- Polytechnic University of Valencia, UPV, Spain
- Royal Institute of Technology, KTH, Sweden
- FORMIT Foundation, FORMIT, Italy
- Network of Mediterranean Schools of Engineering, RMEI, France

- Univ. Cairo, Egypt
- Univ. Ain Shams, Egypt
- Univ. Zagazig, Egypt
- Arab Academy for Science and Technology and Maritime Transport
- Lebanese Univ., Lebanon
- USEK, Lebanon
- ENSA Marrakesh, Morocco
- AIAC-ONDA, Morocco
- Université Mohamed V - Agdal - École Mohammadia d'Ingénieurs (EMI), Morocco
- Higher Institute of Transport and Logistics, Sousse University, Tunisia
- Ecole Nationale d'ingénieurs de Sousse, Tunisia

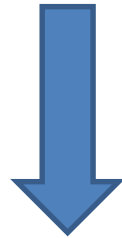
- Growing transport demand in the Southern Mediterranean Area (SMA).
- Transport system is facing a substantial development phase, thus becoming a strategic factor for socioeconomic development.
- Efficiency of the road network whose standards and operations are still a little far from the European standards?



Unfortunately, 50 people are killed monthly by car accidents !!!

- Design, develop and implement a new Master curriculum in Highway and Traffic Engineering
- Joint effort between EU and Mediterranean Universities in line with Bologna requirements
- Transfer EU best practices, experiences, and methodologies to support the development and diffusion of an innovative experience in higher education in Mediterranean institutions
- 2010 governments of the world declaration: 2011–2020 the Decade of Action for Road Safety.

- students will learn new and advanced tools for road safety management, traffic management, and highway design.



HiT4Med graduates will be in position to develop a modern, safe, and efficient road network in the years to come.

➤ HiT4Med:

- **Course Syllabus** development
- Five **workshops** and 14 **webinars**
- Training of **10 professors**
- Two months **internship** for 3 students
- **Equipment and Software**
- Mutual collaboration in **research** thesis

Semester	Type of activities	Number of courses	Number of Credits (ECTS)	Assisted workload
I	Theory and practice	8	35	210 hours (5 months)
II	Internship	1	5	2 months
	Master Thesis	1	30	4 months
Total		10	70	11 months

- The New Program has been launched under the High Patronage of HE the Minister of Public Works and Transport on October 18-2014

- [Books](#)
- [Visio conference room](#)
- Automotive simulator
- Traffic Engineering Simulator
- Traffic Counting equipments

➤ Enrollment Conditions:

- BE in Civil Engineering (minimum of five years)
- GPA \geq 75/100
- 2014-2015: 19 applicants accepted (acceptance rate: 30%): 14F/5M
- 2015-2016: 11 applicants accepted (acceptance rate: 33%): 9 F/2M
- 2016-2017: 18 applicants accepted (acceptance rate: 33%): 13 F/5M





- SEMSEM: Services pour l'Employabilité et la Mobilité sous forme de Stages en Entreprises des Etudiants Maghreb/Machrek

- ✓ /4/2014: General assembly of the three civil engineering departments of the Faculty of Engineering: a meeting was organized with all the civil engineering professors, where the new Master program has been presented.
- ✓ Three meetings with the students were organized in each section of the Faculty of Engineering to present the new Master program that will open in October 2014.
- ✓ September 2014: the new Master program is posted on the Faculty of Engineering website: <http://ulfg.ul.edu.lb/master2/master9.aspx>
- ✓ September 2014: call for [application on the FE website](#) and Press release
- ✓ June 2015: Second call for application on the FE website

- ✓ Information day: the new Master program has been inaugurated under the High patronage of His Excellency the Minister of Public Works and Transportation on October 19 2014.
- ✓ A special session has been organized in the conference CITEF (The Actions of International Cooperation for Teaching and Research in Engineering) that took place in Beirut on October 16-19 2014. A paper entitled “HiT4Med: a Challenging Master Program in Highway and Traffic Engineering for Mediterranean Countries » were presented in CITEF conference. Attendance was of 70 participants among students and professors.
- ✓ presentations are published at the dissemination section of the website: <http://www.hit4med.eu/index.php/dissemination>
- ✓ Erasmus Plus National Information Day- Beirut Nov. 2016

- ✓ Field visit:
 - ✓ Port of Beirut (done).
 - ✓ Traffic Management Center
- ✓ SEMSEM

We have enrolled the LU HiT4Med Master students in another Tempus project SEMSEM 544360 (Services pour l'Employabilité et la Mobilité sous forme de Stages en Entreprises des étudiants du Maghreb/Machrek). The aim of this project is to provide quality guidelines for internship realization. After getting enrolled in the different steps of quality assurance process, a SEMSEM label is provided to the Master internship.
- ✓ Several memorandum of cooperation has been signed with different socio-economical actors among them we list: the municipality of Beirut, the municipality of Tripoli, Beirut Container Terminal Consortium, Khatib and Alami corporation, Team International...

- Implement a new, unique and challenging Master program in the field of Highway and Traffic Engineering.
- Proof of a very good collaboration among Lebanese Universities
- This new master program could provide an answer to the EU objectives and local needs:
 - ✓ reconciling **growing needs in transportation** systems with more efficient operations
 - ✓ lower **environmental impact**
 - ✓ increased **road safety**



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