ME7: GROUND VEHICLES

Track 7

Contacts:

Prof. Federico Cheli **federico.cheli@polimi.it** Prof. Gianpiero Mastinu **gianpiero.mastinu@polimi.it**

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ME7: Skills you will acquire...

After graduating, you will have developed numerous **advanced technical skills**. For example, you will be able to:

- Model and simulate vehicles and vehicle systems;
- Design electic vehicles and their components;
- Perform optimal design of vehicle systems and components for lightweight and durability;
- Run driving simulator to develop Human-Machine Interface systems;
- Use numerical methods such as Multi-body and FEM for complex mechanical systems;
- Perform and coordinate measures and testing on vehicle systems and components.











ME7: Career Opportunities

After graduating, you will be able to **pursue your career** (not only, but also) in:

- Automotive engineering;
- Railway engineering;
- Automated, Autonomous and Connected vehicle eng.
- Motorsport engineering;
- Modelling and Simulation;
- Industry 4.0 digital transformation;
- Intelligent Transportation Systems (ITS);
- Big Data analytics;
- Artificial Intelligence;
- R&D, testing
- Consulting.





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ME7: Track Mandatory and Elective Courses

	COURSETITLE	SEM	ECTS
8 ECTS	Vehicle Dynamics and Control A	1	10
	Ground Vehicle Engineering A	2	10
	Track Elective Courses I		6
Track Mandatory Courses 20 ECTS	Hybrid and Electric Vehicle	1	6
	Mechanical Systems Reliability	1	6
	Vehicle Design (Optimal Design)	2	6
	Track Elective Courses II (2 out of 24 courses available)		12
		1-2	6
Track Elective Courses 18 ECTS		1-2	6
		1-2	6
		1-2	6
	Max. 1 course to be chosen from Group OPEN	1-2	6

For further information click here:

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https://www8.ceda.polimi.it/manifesti/manifesti/controller/extra/RegolamentoPublic.do?jaf c urrentWFID=main&EVN_DEFAULT=evento&aa=2020&k_corso_la=483&lang=EN

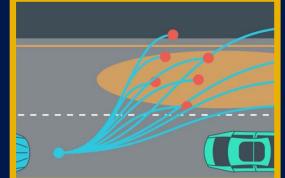


ME7: Examples of Master's Thesis



Indoor testing of electric vehicles







Design and testing of F1 brakes Optimal trajectory for autonomous driving

Control of vehicle dynamics through torque vectoring



ME7: Partners



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