

ME5: ADVANCED MECHANICAL DESIGN

Track 5

Contacts:

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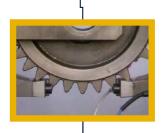
ME5: Skills you will acquire...

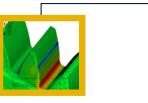
After graduating, you will have developed numerous advanced technical skills. For example, you will be able to:

- Understand both machine elements and complex mechanical systems;
- Manage the whole design and development process: concept, preliminary design, system design, structural design, constructive design, prototyping, testing, industrializing;
- Master the complete innovation process;
- Understand mechanical behaviour of materials;
- Apply with a strong theoretical background numerical methods, such as FEM and CFD;
- Manage a testing and experimental campaign.

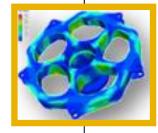


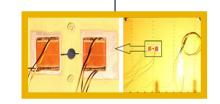












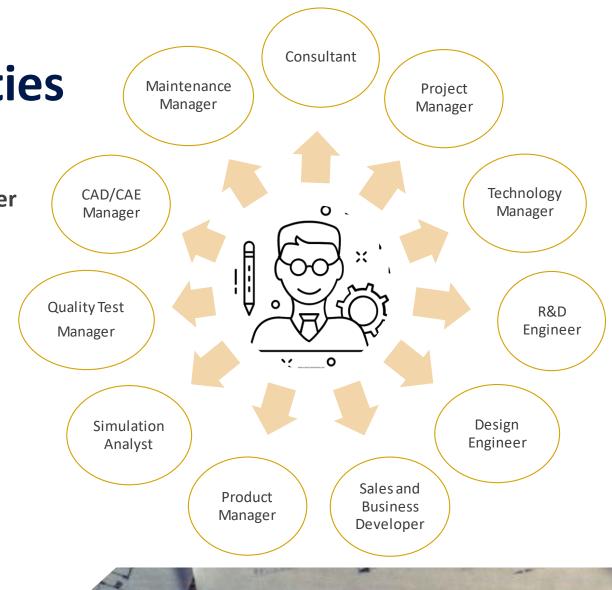




ME5: Career Opportunities

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

- R&D;
- Technology and Machinery Design;
- Business Services;
- Aerospace;
- Automotive;
- Industrial fields.





ME5: Track Mandatory and Elective Courses

38 ECTS

Track Mandatory Courses

20 ECTS

Track Elective Courses 18 ECTS

COURSETITLE	SEM	ECTS
Methods and Tools for Systematic Innovation I. C.	1	10
Methods and Advanced Mechanical Design	2	10
Track Elective Courses I		6
Modelling of Mechanical Behaviour and Materials B	1	6
Mechanical Systems Reliability	1	6
Metodi Sperimentali per la Diagnostica Strutturale	2	6
Mechatronic Systems and Laboratory B	1	6
Computer Vision and Revere Engineering	2	6
Track Elective Courses II (2 out of 19 courses available)		12
	1-2	6
	1-2	6
Max. 1 course to be chosen from Group OPEN	1-2	6

For further information click here:

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



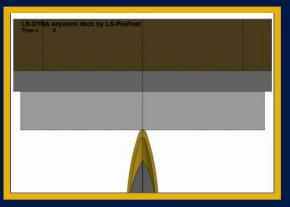
ME5: Examples of Master's Thesis



Structural Health Monitoring of aerospace structures



Design and Testing of power transmissions



Ballistic impact and design of protections



Design, prototyping and testing of a solar parabolic system



ME5: Partners

Universities & Research Centres

Companies & Organisations







INSTITUT NATIONAL **DES SCIENCES APPLIQUÉES**





































