



ME5: ADVANCED MECHANICAL DESIGN

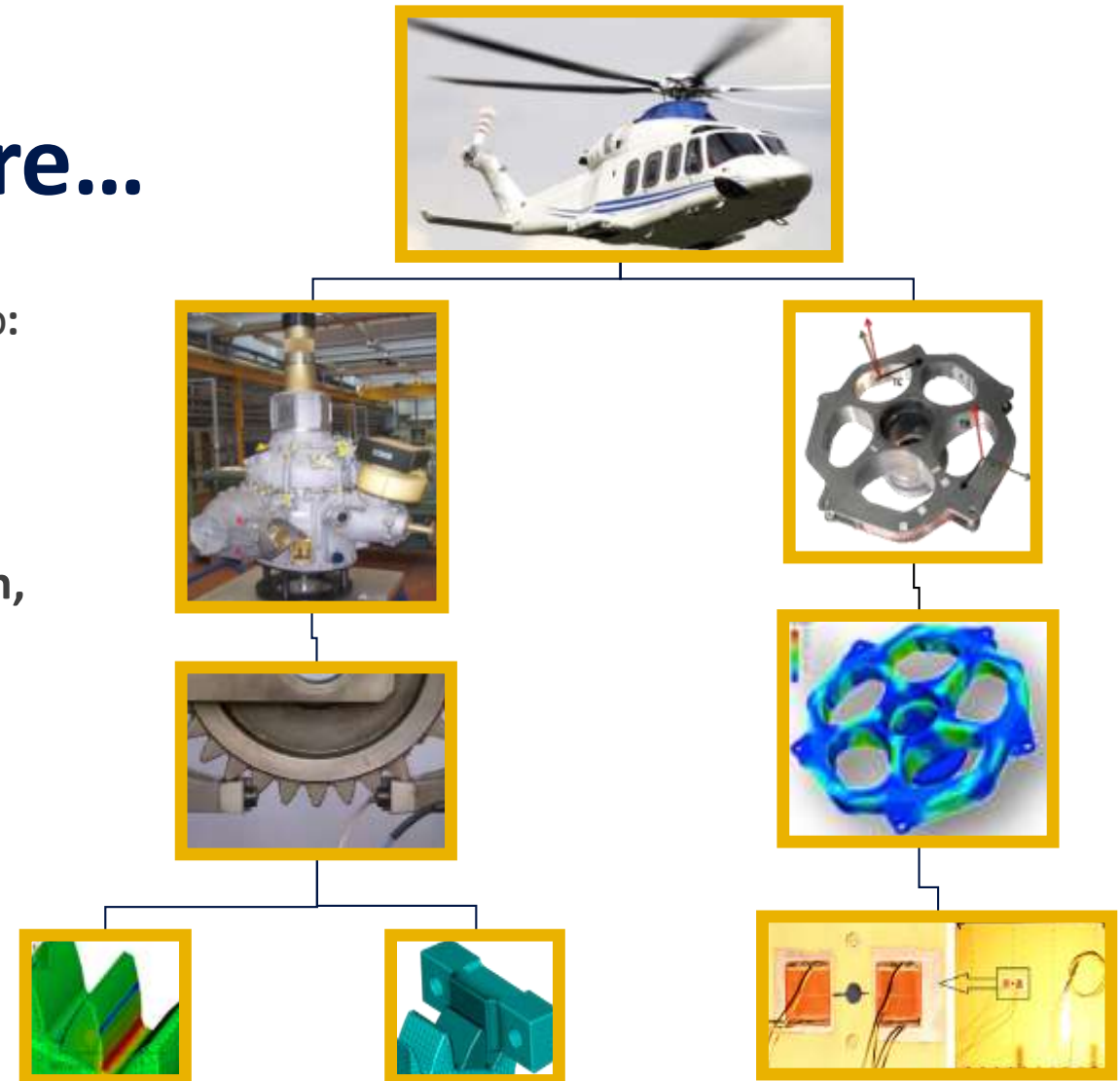
Track 5

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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:

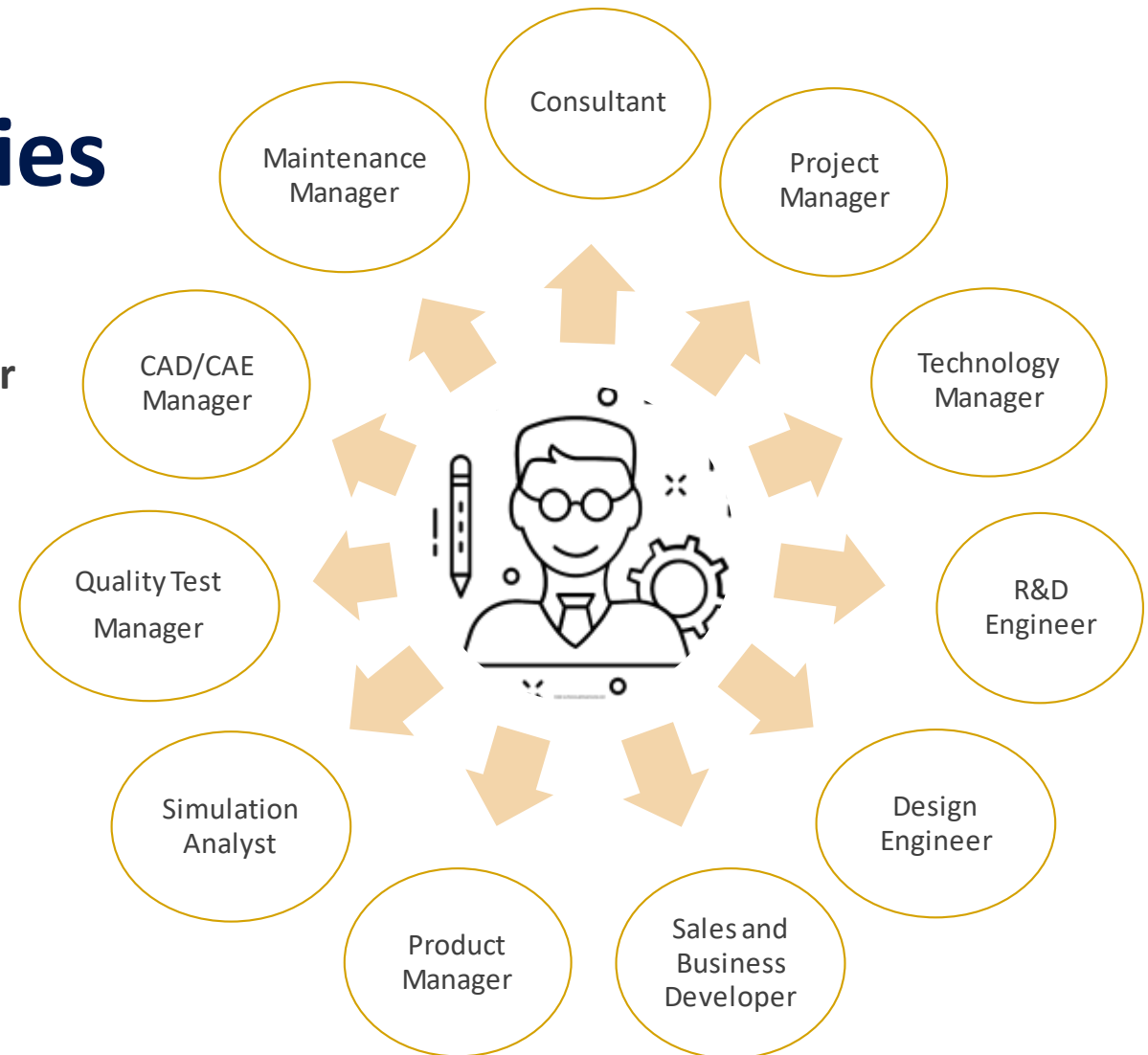
- Understand both machine elements and complex mechanical systems;
- Manage the whole design and development process: concept, preliminary design, system design, structural design, constructive design, prototyping, testing, industrializing;
- Master the complete innovation process;
- Understand mechanical 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

COURSE TITLE	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 Reverse 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

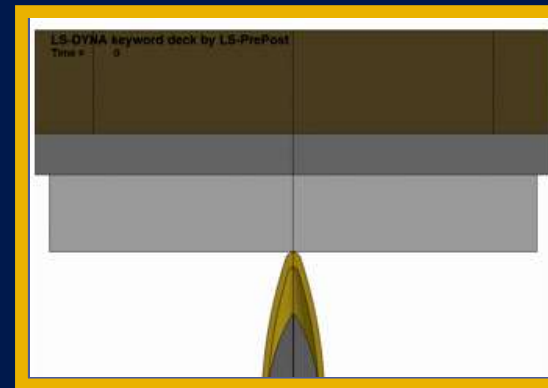
ME5: Examples of Master's Thesis



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

