

# Reliability and Lifetime Analysis



ECTS  
3 crédits



Hourly volume  
36h

## Introducing

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## Location(s)

 Toulouse

## Objectives

At the end of this module, the student will be able to drive the following process and to explain the obtained conclusions

- Using the Reliability database in order to estimate the functions of interest
- Analyzing and exploiting the structure of a system to derive its reliability from the characteristics of its components
- Modeling the recursive occurrences of the failures on a system. Modeling the évolution of the system-state with time.
- Modeling the effect of maintenance and its planning according to the observations made on the system (dégradation process in particular)

## Necessary prerequisites

- Markov chains and applications (MIC3)
- Inferential Statistics (MIC3)
- Statistical Modelling (GMM4)

## Practical info

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