

## Vibrations and Acoustics examination: Vibrations part

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As explained in the introduction course, the oral examination will consist in the oral presentation of one of the 5 case studies presented in the introduction class:

- Payload comfort in space launchers
- Passenger comfort related to engine vibration in a car
- Passenger comfort related to road irregularities in a car
- Vibrations of aircraft wings and tail
- Fatigue of wind turbine

For the case study which will be assigned to you, I am expecting you to present

- The major source(s) of excitation
- The major effects of these sources and how to model/predict the vibration levels
- The possible design and/or remedial measures when vibration levels are too high

When you arrive in the examination room, one of the case studies will be assigned to you randomly, and you will have 15 minutes to review it. You can use any kind of support with you during the examination (powerpoint, copy of slides, handwritten notes, printed, or on your own laptop). It is of course strongly advised to prepare all 5 case studies in advance, you have only **15 minutes** to review your prepared material, and you will have **15 minutes** to present it.