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Vibration Analysis and Validation of dynamic characteristics of Aero engine  
Stator Blade

The students are expected to learn:

1. FE modeling and analysis of stator blade using Simulation tools
2. Extraction of modal characteristics and generation of Campbell plots
3. Study of Instrumentation of blades by strain gaing
4. Strain data analysis for validation of FE Analysis results

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Structural Analysis of Aero engine casing for design evaluation from Dynamics  
point of view

The students are expected to learn:

1. CAD modeling of and meshing of Casing structure using commercial tools
2. FE analysis of Casing using Simulation tools
3. Extraction of Stiffness and modal characteristics
4. Study on design characteristics