



Module PMRF-ISSS061/2023

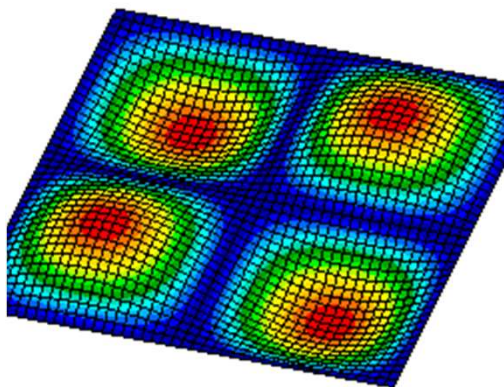
Structural vibration and modal analysis

Name of the PMRF student

Varsha P

Required background of the students taught

Civil Engineering
Mechanical Engineering
Aerospace Engineering



Details of the content of the module

Introduction to single , multi-degree of freedom systems and continuous systems

Frequency Response Function (FRF)

Review of signal processing tools

Modal parameter extraction (natural frequency, damping and mode shapes)

Derivation of mathematical models: modal model, response modal and spatial models

Additional: MATLAB for modal analysis

Schedule of the module

Start date: October 25, 2023

End date: November 5, 2023

Class timings: Recorded lectures/slides and MATLAB codes will be uploaded everyday at 7.30pm.

Meeting link : **Will be shared later**

Contact email ID:

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Registration link:

<https://forms.gle/gH6huxckdvACvbzD8>

