Organiser





UiTM - MSC Software ASEAN Training Hub



Co-Organiser

Research Center and Community Services, **University of Lampung** Indonesia

Modelling & Analysis of Structural Vibration Using MSC **Software**

Structural vibration has become increasingly important in the automotive, aeronautic or space environment, where the need for optimal performance is ever increasing. To simulate and control phenomena through increasingly large complex models. engineers or researchers must first understand them. Therefore, this workshop sets out to present and explain finite element modelling and analysis for structural vibration using MSC PATRAN/NATRAN. There are 10 modules to be covered comprising of different types of modelling and analysis set ups, model validation and demonstration of modal testing to measure the dynamic behaviour of a structure.

SERIES

1st - 2nd July 2021 Time (KUL): 9.30am - 5.30pm Time (JKT): 8.30am - 4.30pm

> Who should Attend? All Engineering students involved in structural vibration modelling and analysis

> > **ADMISSION** Complimentary*

Topics to be covered:

	Day 1	Time	
•	Module 1: Introduction to Structural Vibration	9.30 am	10.30 am
•	Module 2 : Introduction to MSC PATRAN/NATRAN	10.30 am	11.00 am
•	Module 3: 1D Modelling and Analysis	11.00 am	12.30 pm
•	Module 4: 2D Modelling and Analysis	12.30 pm	1.30 pm
	Break	1.30 pm	2.30 pm
•	Module 4: 2D Modelling and Analysis	2.30 pm	3.30 pm
•	Module 5: 3D Modelling and Analysis	3.30 pm	4.30 pm
•	Module 6 : Normal Modes Analysis using Solution 103	4.30 pm	5.30 pm
	Day 2		
•	Module 7: Direct Frequency Response using Solution 108	9.30 am	10.30 am
•	Module 8: Modal Frequency Response using Solution 111	10.30 am	11.30 pm
•	Module 9: Finite Element Modelling and Analysis of Jointed Structures	11.30 pm	12.30 pm
•	Module 10 : Case Studies (Train Rail & Golf Club)	12.30 pm	1.30 pm
	Break	1.30 pm	2.30 pm
•	Module 10 : Case Studies (Train Rail & Golf Club)	2.30 pm	3.30 pm
•	Discussion	3.30 pm	4.30 pm

REGISTRATION **DEADLINE** 10 JUNE 2021 Via Google Form https://forms.gle/7kUTpUn Seat are limited to 20 AVsWUWNGL9 pax only*

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Facilitators:



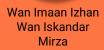
Mohd Azmi Yunus



Abdul Rani



Assoc. Prof. Ir. Dr. Dr. Muhamad Norhisham Mohd Azam Shah Aziz Shah



Abdul Rahim

Bahari

For more info and registration

