BMM3553
MECHANICAL VIBRATIONS

Introduction

by
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Lecturer

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- ROOM – NVH Lab (Level 1)
- Focus Group – Advanced Structure Integrity & Vibration Research Group [ASIVR]
- http://asivr.ump.edu.my
- Other Lecturers:
  - Ir. Dr. Zamri Mohamed (Section 2)
  - Dr Ngui Wai Keng(Section 3)

Course Synopsis

- This course introduces fundamental of vibration, un-damped vibration single degree of freedom (SDOF), damped vibration single degree of freedom (SDOF), two degree of freedom (2DOF) multi degree of freedom (MDOF) and some applications of vibrations in engineering.

Course Outcome

- CO1: Model, formulate and obtain the solutions to vibration problems that contain free-vibration and forced-vibration analysis of un-damped single degree of freedom systems

- CO2: Model, formulate and obtain the solutions to vibration problems that contain free-vibration and forced-vibration analysis of damped single degree of freedom systems

- CO3: Model, formulate and obtain the solutions to vibration problems that contain free and forced-vibration analysis of two degree of freedom systems

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- CO4: Model, formulate and obtain the solutions to vibration problems that contain un-damped free vibration analysis of multi degree of freedom systems

- CO5: Use instruments in measurement and analysis of vibration signatures. Expose soft skill elements such as team working and communication.

Assessment

	Assessments	CO1	CO2	CO3	CO4	CO5	Distribution
Assessment Methods	Mid-Term Exam	√	√				30 %
	Quiz	√	√	√	√		10 %
	Laboratory/Presentation					√	20 %
	Final Exam	√	√	√	√		40 %
	Total						100 %

Rules

- Attendance
  - Overall attendance>80%
- Assessment
  - All assessment must be submitted before dateline

Thank You

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