

**APPROVED**

## EN8906: Vibration, Noise and Mechanics of Machine

### Course Details

Course Code:	EN8906
Course Title:	Vibration, Noise and Mechanics of Machine <b>APPROVED</b>
Short Title:	Vibration
Course Level::	Level 8
Valid From::	2021/2022 Sem 1
Credits::	15
Owner:	Engineering Technology
Assessment Method:	Achievement
Course Aim	To enable students to apply specialist skills using concepts of mechanics in machines, select appropriate transmission systems for various applications, investigate fluctuation of energy in flywheels ,minimise vibration and sound control.

CILO	
On Completion of this course, the learner will be able to	
#	Learning Outcome Description
1	Demonstrate critical knowledge and understanding of velocity and acceleration for various planar mechanism.
2	Critically analyse transmission elements to select appropriate components, such as gears ,gear trains ,belt drives shafts and bearings.
3	Design appropriate flywheels by critically analysing flywheel energy from turning moment diagrams.
4	Use evaluations of vibration parameters to minimise vibration in mechanical systems.
5	Demonstrate critical knowledge of sound measurement, sound transmission, and reverberation.
Requisites	
<ul style="list-style-type: none"> <li>Pre Requisite: 60 Credits at level 7 in B.Eng Tech (Mechanical)</li> </ul>	

Examinations
<b>Assessment Type</b> Examination (seen/open book)
Other Controlled Assessments
<b>Assessment Type</b> Simulation
Uncontrolled Assessments
<b>Assessment Type</b> Practical Project

Affiliated Entities			
Entity Code	Entity Title	Entity Version	Entity Type
None			