

APPROVED

EN8906: Vibration, Noise and Mechanics of Machine

Course Details

Course Code:	EN8906
Course Title:	Vibration, Noise and Mechanics of Machine APPROVED
Short Title:	VNM
Course Level::	Level 8
Valid From::	2022/2023 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 of velocity and acceleration for various planar mechanism.
2	Critically analyze 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	Apply evaluations of vibration parameters to minimize vibration in mechanical systems.
5	Demonstrate critical knowledge of sound measurement, sound transmission, and reverberation.
Requisites	
<ul style="list-style-type: none"> Pre Requisite: 60 Credits at level 7 in B.Eng Tech (Mechanical) 	

Examinations
Assessment Type Examination (seen/open book)
No Other Controlled Assessments
Uncontrolled Assessments
Assessment Type Lab Assignment
Assessment Type Practical Project

Affiliated Entities			
Entity Code	Entity Title	Entity Version	Entity Type
ENT8020	Bachelor of Engineering Technology (Mechanical)	3	Programme