

**APPROVED**

## EN8090: Digital Signal Processing

### Course Details

Course Code:	EN8090		
Course Title:	Digital Signal Processing	APPROVED	
Short Title:	DSP		
Course Level::			
Valid From::	2021/2022 Sem 2		
Credits::	15		
Owner:	Engineering Technology		
Assessment Method:	Achievement		
Course Aim	The course aims to enable students to demonstrate critical and detailed knowledge in the theory and applications of digital signal processing (DSP) with emphasis on signal analysis using Fourier transforms, linear systems analysis, sampling theorem, design and implementation of digital filters.		

CLO	
On Completion of this course, the learner will be able to	
#	Learning Outcome Description
1	Demonstrate critical knowledge of the concepts and theories for the discrete-time systems and analyze them in the time and frequency domains.
2	Solve problems involving discrete-time systems for a broad array of real-life applications and critically evaluate the proposed solutions.
3	Communicate the design and simulation results for discrete-time systems problems in a well written professional report to a group of peers and specialists.
Requisites	
<ul style="list-style-type: none"> <li>Pre Requisite: EN7000</li> </ul>	

Examinations
<b>Assessment Type</b> Examination (Unseen)
<b>Assessment Type</b> Examination (Practical)
No Other Controlled Assessments
Uncontrolled Assessments
<b>Assessment Type</b> Project (Individual)

Affiliated Entities			
Entity Code	Entity Title	Entity Version	Entity Type
ENT8090	Bachelor of Engineering Technology (Industrial Instrumentation and Automatic Control)	1	Programme