

Module designation	CE421 Linear Signal & System		
Semester(s) in which the module is taught	3		
Person responsible for the module	Nabila Husna Shabrina, S.T, M.T.		
Language	Indonesian		
Relation to curriculum	Compulsory		
Didactic Methods	Lecture, Interactive Multimedia, Independent Learning		
Workload (incl. contact hours, self-study hours)	<p>Total workload: 136.08 hours</p> <ul style="list-style-type: none"> - 35.01 hours of synchronous lecture. - 84.06 hours of self-study and assignments in the form of essays. - 17.01 hours related to exam and self study 		
Credit points	3 SKS (5.04 ECTS)		
Required and recommended prerequisites for joining the module	CE121 Linier Algebra		
Module objectives/intended learning outcomes	F	F1	<p>Ability to construct solutions with logical, critical, and systematic thinking based on analytically-identified problems.</p> <p>Students will be able to analyze continuous and discrete time signals, both separately and in relation to the systems concerned (C4)</p> <p>Students will be able to use mathematical tools to analyze continuous and discrete signals and systems, both in time domain and frequency domain (C4)</p> <p>Students will be able to analyze problems related to signal and system and interpret the results logically and systematically with a responsible attitude (C4)</p>
Content	This course deals with the definition, representation, properties, signal classification and continuous and discrete time systems, understanding and skills in the use of signal and system analysis tools such as operators, Fourier series, Fourier transforms and Laplace transforms.		
Assessment Instrument	Written Test		
Study and examination requirements	The total average score for this subject : assignments&quiz (30%), midterm exam (30%), final exam (40%). Final score must		

	be more than or equal to 55 (C).
Reading list	<ol style="list-style-type: none">1. M. J. Roberts, "Fundamentals of Signals and Systems", McGraw-Hill, 2008 (wajib) [R]2. A V. Oppenheim, Willsky, A. S., and Nawab, S. H., "Signals and Systems", 2nd Edition, Prentice Hall, New Jersey, 2015. [OWN]3. H. P. Hsu, "Schaum's Outlines of Signals and Systems", 4th Edition, McGraw-Hill, New York, 2019.[H]