

CETS8AI APPLICATION FOURIER TRANSFORM

CETS8AI Application of Fourier Transform	ECTS Credits: 2 Duration: 21 hours	Semester: S8		
Person(s) in charge: Dragi KAREVSKI, Professor, dragi.karevski@univ-lorraine.fr				
Keywords: Fourier Transform				
Prerequisites:				
Objective: Implementation of Fourier Transform				
Program and contents: Objectives Learning calculation methods and mastering mathematical techniques through a very practical approach using various specific problems. Students will do a great number of exercises that will help them acquire a certain "virtuosity" with the power distribution frame. Content • Convolution and Fourier transforms of Distribution Functions • Convolution, Fourier Transforms, Laplace Transforms, Laplace Transforms of distributions. • Applications for diffusion, optical Fourier, linear response, sampling, signal processing, regulating systems and different physical and engineering problems. Assessment methods 1st test on mathematics learned – 2nd test on physical applications				
Evaluation:				
☒ Written test	☐ Continuous Control	☐ Oral report	☐ Project	☐ Written report