



Course Specification Document

Title	Integral transforms, Fourier Analysis and Distributions
Credits	4 ECTS
Aims	This course aims to study of basic concepts of Integral transforms, Fourier Analysis and Distributions.
Intended learning outcomes	
On successful completion of this course, the student will be able to: <ul style="list-style-type: none">• Calculate Laplace transforms and use them in different applications.• Expand periodic functions in Fourier Series, and use them in different applications.• Calculate Fourier transforms in different function spaces, and use them in applications• Understand the meaning of Distributions, and how to do calculations in the Distributions sense.	
Syllabus	
<ul style="list-style-type: none">• Laplace Transforms and applications.• Fourier Series.• Fourier Transforms.• Introduction to the theory of Distributions.	