

COURSE DETAIL

FOURIER ANALYSIS

Country

United Kingdom - England

Host Institution

King's College London

Program(s)

King's College London

UCEAP Course Level

Upper Division

UCEAP Subject Area(s)

Mathematics

UCEAP Course Number

152

UCEAP Course Suffix**UCEAP Official Title**

FOURIER ANALYSIS

UCEAP Transcript Title

FOURIER ANALYSIS

UCEAP Quarter Units

6.00

UCEAP Semester Units

4.00

Course Description

The course introduces the notions of Fourier series and Fourier transform and to study their basic properties. The course is devoted to the one dimensional case in order to simplify the definitions and proofs. Many multidimensional results are obtained in the same manner, and those results may also be stated. The Fourier technique is important in various fields, in particular, in the theory of (partial) differential equations. It is explained how one can solve some integral and differential equations and study the properties of their solutions using this technique.

Language(s) of Instruction

English

Host Institution Course Number

6CCM318A

Host Institution Course Title

FOURIER ANALYSIS

Host Institution Course Details

<https://www.kcl.ac.uk/abroad/module-options/fourier-analysis-3>

Host Institution Campus

Host Institution Faculty

Host Institution Degree

Host Institution Department

Mathematics

Course Last Reviewed

2023-2024

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