Description of Real Analysis Course

This course, covers the basic material that interested graduate students should know in the classical theory of functions of a real variable, measure and integration theory, and some of the more important and elementary topics in general topology and normed linear space theory. This text assumes a general background in mathematics and familiarity with the fundamental concepts of analysis. This course also covers classical theory of functions, including the Classical Banach Spaces; General Topology and the Theory of General Banach Spaces; and Abstract treatment of Measure and Integration.

Precisely, the table of contents that covers in this course is:

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The text book which is a reference to these contens is REAL ANALYSIS written by H. L. Royden and Patrick Fitzpatrik.

