COURSE DETAIL

TOPOLOGY
Country Ireland
Host Institution University of Galway
Program(s) Irish Universities,National University of Ireland, Galway,University of Galway
UCEAP Course Level Upper Division
UCEAP Subject Area(s) Mathematics
UCEAP Course Number 114
UCEAP Course Suffix
UCEAP Official Title TOPOLOGY
UCEAP Transcript Title TOPOLOGY
UCEAP Quarter Units 4.00
UCEAP Semester Units 2.70

Course Description
This course introduces the theory and application of topology. Topics include the basic algebra of set theory, including De Morgan's Laws; topological space; the relationship between topologies and continuous functions; homeomorphism; construction of new topological spaces using the subspace and quotient constructions; compactness and basic theorems relating to this concept; connectedness and basic theorems relating to this concept; and applying topological ideas to solve problems in other areas of mathematics or applied mathematics e.g. topological proof of the fundamental theorem of algebra or a proof of the Brouwer fixed point theorem.

Language(s) of Instruction
English

Host Institution Course Number
MA342

Host Institution Course Title
TOPOLOGY

Host Institution Campus
National University of Ireland, Galway

Host Institution Faculty

Host Institution Degree

Host Institution Department
Mathematics

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