MATH 581. ADVANCED PARTIAL DIFFERENTIAL EQUATIONS 2

Credits: 4

Offered by: Mathematics and Statistics (Faculty of Science)

This course is not offered this catalogue year.

Description

Systems of conservation laws and Riemann invariants. Cauchy-Kowalevskaya theorem, powers series solutions. Distributions and transforms. Weak solutions; introduction to Sobolev spaces with applications. Elliptic equations, Fredholm theory and spectra of elliptic operators. Second order parabolic and hyperbolic equations. Further advanced topics may be included.

- Winter
- Prerequisite(s): MATH 455 or equivalent, MATH 580.