

Politechnika Rzeszowska  
Differential Equations  
Winter 2018

**Instructor Information:**

*Instructor:* Dr Nicholas Sedlmayr

*Office:* K47

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*Office Hours:* Wednesday 10:30am - 12:00am, and Thursday 12:15pm - 13:45pm.

**Course Web Page:** See [this](#) page.

**Class Time and Location:** 14:00, Wednesdays, K45A

**Course Content:** The topics of this course include:

- partial differential equations of the first order, basic concepts, methods of solving;
- formulating and solving partial differential equations;
- partial differential equations of the second order, basic concepts, classification, types, examples;
- separation of variables;
- scalar and vector fields, e.g. Maxwell's equations; and
- applications in electric engineering, mechanics, and physics.

**Grading:** The course grade will be based on continuous assessment and a final oral exam.