

MATH3421 or MATH4421
PROJECT OR ASSIGNMENT IN APPLIED MATHEMATICS

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THE HEAT EQUATION IN COMPOSITE MATERIALS

Prerequisites: Differentiation, Ordinary Differential Equations, Integration, Partial Differential Equations.

Abstract. A heat conductor is composed of many homogeneous and isotropic conductors, in general. In this project, we shall address the problem of the observability of the temperature from boundary measurements. The well-posedness of the problem will also be studied.

Methods of teaching, learning and assement

- The student will have regular meetings of 1 hour per week with the supervisor.
- The student will be required to document in a final report (between 30-50 pages for MATH3421, and between 50-70 pages for MATH 4421) their understanding and knowledge transfer gained from their study.