

## Summer Research Project and Fellowship

Many students and faculty of some institutions write for doing project under summer research fellowship. It is not possible to reply individually. Only students who are in final year of M.Sc. and B.E. or above may write to me. B.E. students must have a very good interest in mathematics and all students must have deep interest in research and not just in a project (which can be completed in one visit).

In order to start preparation for research, one needs to have a minimum mathematical back ground as given below:

### 1. Analysis

- Books :
- a) R. R., Goldberg – Methods of Real Analysis (or)
  - b) W. Rudin, – Principles of Mathematical Analysis (or)
  - c) A postal, TM – Mathematical Analysis (or)
  - d) G. F. Simmons – Introduction to Topology and Modern analysis

### 2. Linear algebra

- Books :
- a) Hoffman, K and Kunze, R – Linear Algebra (or)
  - b) Artin, M – Algebra – first 4 chapter to begin with

### 3. Differential equations

- Books :
- a) Simmons, G.F – Differential equations and
  - b) Prasad, P and Ravidran, R – Partial Differential Equations

Thus, any one wishing to do a summer project, it is better that he makes sure that he has the minimum back ground as mentioned above or atleast has a good capacity to master the material. A summer Fellowship under me are available through Indian Academy of Sciences, see webpage: <http://www.ias.ac.in/>