Dear Student,

Congratulations on being selected as a candidate for the research programme for the 2015 academic session. This department is among the top ECE departments in the country and has faculty members who have a rich academic and industry experience from leading universities and leading companies of the world. The research programme at ECE, IISc is cutting-edge and gives the student an opportunity to solve challenging problems which influence development of future technologies of the world.

You would have received a letter from our admissions office inviting you for an interview at IISc during 1-5 June 2015, for admission to our research program. I am writing this letter to inform you about the interview procedure in our department, so that you can prepare for it.

Each candidate is asked to indicate on a check-list, (sample check-list attached) one or two proposed research areas of his/her interest. All candidates, irrespective of their planned area of research, are examined on their analytical ability by being asked questions in at least 2 of the following areas of mathematics:

- Real Analysis and Differential Equations
- Matrix Analysis, Linear Algebra
- Fourier, Laplace, z-Transforms
- Probability Theory and Random Processes
- Discrete Mathematics (combinatorics, graphs).

The problems posed will not involve lengthy calculations, but will test the basics, and the ability to think “on one’s feet.” Such questioning could last 10 to 15 minutes. Following satisfactory performance in this part of the interview the candidate will be asked questions in the proposed area of research or any related area. These questions will be from topics of undergraduate study (for M.Sc. (Engg)) and topics of post-graduate study (for Ph.D.). The nature of the questions will be to explore the student’s clarity of thinking and deeper understanding of the topics, rather than descriptive system level knowledge. Details are also available at the department website.

I look forward to seeing you.

Best wishes,

(K. V. S. HARI)
CHAIRMAN
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