Department of Mathematics
Bharathidasan University
Tiruchirappalli – 620 024
Tamil Nadu
Advanced Training Programme in Mathematical Analysis
August 05 – 09, 2015
Consolidated Report

The 5-day Advanced Training Programme in Mathematical Analysis was organized by the Department of Mathematics, Bharathidasan University, Tiruchirappalli, Tamil Nadu with the support of NBHM and ISI Chennai Centre, Chennai started on 5th August 2015. The following persons organized the programme.

1. Prof. S. Ponnusamy(Chairman)

   Head, ISI Chennai Centre

   Chennai

2. Dr. C. Durairajan(Organizing Secretary)

   Department of Mathematics

   Bharathidasan University, Tiruchirappalli - 620 024

3. Prof. M. Marudai(Convenor)

   Department of Mathematics

   Bharathidasan University, Tiruchirappalli - 620 024

The committee members are Dr. A. Tamilselvan, Dr. P. S. Srinivasan and Dr. V. Piramananthan from the Department of Mathematics, Bharathidasan University, Tiruchirappalli, Tamil Nadu.

The programme was inaugurated by Prof. R. Balakrishnan, Adjuncted Professor, Department of Mathematics, Bharathidasan University, Tiruchirappalli on 5th August 2015 at 9.00AM. The classes were started at 9.30AM on 5th August 2015. Every day we had four sessions(the duration of each session is one and half hours) and two speakers. Every day the morning session stared at 9.30AM and the last session ended at 5.30PM. There were 71 participants which include, 37 M. Sc. Students, 1 M. Phil. Student, 23 Research scholars and 10 Teachers.

The speakers are

1. Prof. S. Ponnusamy

   ISI Chennai Centre, Chennai

2. Prof. S. Kesavan

   IMSc, Chennai

3. Prof. S. Somasundaram

   Manonmaniam Sundaranar University, Tirunelveli, Tamil Nadu

4. Prof. G. P. Youvaraj

   Ramanujan Institute for Advanced Study in Mathematics

   University of Madras, Chennai

5. Prof. T. Parthasarathy

   Adjunct Professor

   CMI, Chennai

6. Dr. A. Sai Ram Kaliraj

   Post Doctoral Fellow

   ISI Chennai Centre, Chennai

Topics covered:

- Prof. S. Somasundaram – Continuity, Differentiability, Applications(both in single and higher dimensions) and problems related to the Inverse and Implicit function theorems.

- Prof. G. P. Youvaraj – Sequence and Series of functions and discussed its related problems.

- Prof. S. Ponnusamy – Problems related to conformal mapping, complex power series and Singularities.

- Prof. S. Kesavan – Riemann Integration and its related problems.

- Prof. T. Parthasarathy – Uniform continuity and problems(conditions under which a sequence of continuous functions converges to a continuous function; show a set of continuous functions defined over the closed and bounded intervals complete; examples to illustrate the sharpness of these results).

- Dr. A. Sai Ram Kaliraj – Tutorial on Complex Analysis.

The classes ended at 4.30 PM on 9th August 2015. There were no formal valediction. The certificate for the participants were distributed by the resource persons Prof. S. Kesavan and Prof. S. Ponnusamy.