SAMBHARAM ACADEMY OF MANAGEMENT STUDIES,

ONE DAY WORKSHOP
ON
“MATHEMATICAL MODELS IN COMPUTER SCIENCE, ENGINEERING AND MANAGEMENT”

The Report

This workshop was held on September 06, 2017 organized by the Department of Mathematics with a total participation of 169 students, scholars and faculties from Management and Engineering Colleges. The inaugural function was held at 10 AM with Prof K.C. Mishra, Principal presiding over; the Resource Persons were Prof. P.V. Arunachalam, Prof. V.G. Tikekar and Prof. S. Nirmala, Head of the Department of Computer Science.

There were three sessions, in the first session Prof. Tikekar spoke on mathematical models in general with simple illustrations. And he explained about the basic concepts of mathematics like sequence, Pascal’s triangle, functions, Probability, Matrices etc.

In the second session Prof. P V Arunachalam talked on various stages of development of Mathematical Models sharing from tales referring to Euclid, Newton, Leibnitz, Ramanujan and other Mathematicians.

In the post lunch Prof V.G.Tikekar explained about the mathematical models in computer science, engineering and management. He explained about the concepts in which before checking the model 1. Statement 2. Mathematical formulation of model 3. Validity, with these conditions we can prepare a model. And these techniques are used to reduce the number of operations or algorithms in the equations to solve by different methods. This is called as analysis of algorithms in computer science.

In one of the methods in operations research a good example of linear programming problem is the simplex method and it was invented by the scientist Karmarker. And he explained about the analysis of variance and it the best way of mathematical model in management. In the engineering sciences there are so
models to construct the analysis and design of experiments. He explained the alphabets ABCD and so on are called as Latin letters. And also he explained about the preparation of table called as Greco-Latin Square; further he taught us how to easily multiply the matrix multiplication.

The valedictory function was held at 3.30 PM in which the participation certificates were distributed to the delegates by Sri B.N. Nagaraj, IPS (Retd), CEO of SGI and Prof. Arunachalam. The Resource Persons were also felicitated by Sri B.N. Nagaraj and the Principal.

Prof Nirmala extended the formal vote of thanks and the whole program was coordinated by Dr. Snehalatha. Necessary technical support was given by Mr. G. Reddappa Naidu and other logistics were taken care of by all the faculty members.