

Avinashilingam Institute for Home Science and Higher Education for Women
Department of Science and Humanities
Faculty of Engineering
Report-National Conference on Mathematical Modelling
14.7.2017

Mathematical Modelling is the mathematical abstraction of physical phenomena. This has two main divisions: Deterministic modelling in which no uncertainty is assumed and Stochastic or Probabilistic Modelling where uncertainty is taken into consideration. Mathematical models are used in the Natural sciences and Engineering disciplines, as well as in the Social Sciences. Physicists, Engineers, Statisticians, Operations research analysts, and Economists use mathematical models most extensively. A model may help to explain a system and to study the effects of different components, and to make predictions about behaviour.

The Department of Science and Humanities, Faculty of Engineering organized a National Conference on Mathematical Modelling on 14th April, 2017. The inaugural session started with invoking the blessings of Almighty. Dr. S. Maragatham, Dean, Faculty of Engineering welcomed the gathering. Dr.S.Jegannathan, Director, Faculty of Engineering released the Proceedings of the conference. Dr.A.Krishnamoorthy, Emeritus Fellow of UGC delivered the key note address and described about deterministic modelling and probabilistic modelling. Dr.N.Nagaveni, Associate Professor, Department of Mathematics, Coimbatore Institute of Technology dealt with fuzzy sets and linear programming.



Dr.S.Jeya Kumar, Professor of Mathematics, Government Arts College elaborated about modelling of queues. Dr.K.Udayachandrika, Professor of Mathematics, Avinashilingam University chaired the paper presentation session in which 30 scholars presented their research findings. The thrust areas discussed during the National conference are Stochastic modelling,

Queueing models, PERT/CPM models, Inventory modeling, Computational modelling, Operational Research and Linear Programming models.

The Conference provided the platform for discussing innovative technologies in Mathematical modelling to enhance research activities in Institutions .The participants felt that the conference was highly informative and educative which will help them in their pursuit of research.