Indian Statistical Institute
North-East Centre
Tezpur, Assam

Title: Working Together - The Games of Cooperation.

Speaker: Prof. Surajit Borkotokey, Department of Mathematics, Dibrugarh University

When

February 07, 2025 at 2.15 PM

Where

Seminar Room, Administrative Building

Abstract

In this talk, I will introduce various models of cooperation that can be analyzed using Game Theory techniques. First, I will talk about bargaining problems and their solution concepts. Then, I discuss the fair-division problem and describe, using examples, some algorithms for obtaining solutions. I also mention the properties these solutions satisfy. Finally, cooperative games with transferable utilities will be introduced. The core and the Shapley value will be obtained as stable and fair allocation rules. Some extensions to Social Choice Theory and Networks will be briefly mentioned in the end.