

## **Abstract**

We are all a part of social network so there can be a lot of factors which decides its properties. IISER Mohali comprises of students from different parts of the country. Some of them might have different social interacting circles. In our study we collected data of students' network through online survey form, where they also answered questions related to personality, rationality, etc. After data collection, we made the network of students in different categories (Friends, Academic support, financial support and emotional support network). In friends network there was only one connected component and some modules (connected sub networks) and in other networks there were few small disconnected components. In all the cases it seems that out of the people who filled the online form, very few of them are disconnected from each other in IISER-M. Students network at IISER-M follows scale-free like degree distribution, hierarchy and dis-assortativity, validating the non randomness and reliability of our data. We compared individuals' properties (like personality and rationality) with other network properties. Correlogram and PCR analyses suggested that different personality traits are associated with distinct network properties, highlighting the possible predictive power of the network attribute for students' personality prediction.