INSTITUTE COLLOQUIUM

INDIAN INSTITUTE OF SCIENCE
BANGALORE

PROFESSOR ANURAG KUMAR
DEPARTMENT OF ELECTRICAL COMMUNICATION ENGINEERING

will deliver a lecture

on

THE SCIENCE AND ART OF INTERNET

On Friday, the 31ST DECEMBER, 1999

at 4.00 PM in the Faculty Hall

PROFESSOR G MEHTA

Director, will preside

All are cordially invited.

Coffee : 5.00 PM
Reception Hall

Prof. S S KRISHNAMURTHY
Convener

A B S T R A C T

In recent years, the Internet has progressed from being a mere research network for interconnecting scientists and academicians, to a vehicle of choice for distributed applications in economically and socially important areas, such as electronic commerce and governance as well as distance education. Thus the performance (for example the throughput and the delay) of the Internet has become a matter of concern. Considerable research is currently under way to improve this for the traditional store-and-forward or "elastic" traffic, and to design methodologies for handling "stream" traffic, such as voice, on the Internet.

This talk will outline some of the factors that affect the Internet performance, and provide insights into current research activities in improving it, and in guaranteeing the quality of service. The standard "web-type" applications and emerging applications such as Internet telephony will be considered. In all these areas, the speaker's own research contributions will be highlighted.