

Department of Computer Science
Holy Cross College, Agartala

Report on Special Lecture on "Network Simulator - NS2"

Date: 23rd April, 2024

Organiser: Department of Computer Science, Holy Cross College

Venue: Online

Target Audience: 2nd Semester B.Sc. Computer Science Students

Guest Speaker: Dr. Alak Roy, Assistant Professor, Department of Information Technology, Tripura University

On 23rd April, 2024, the Department of Computer Science, Holy Cross College, organized a special lecture for the 2nd Semester B.Sc. Computer Science students on the topic of "Network Simulator - NS2." The session was conducted by **Dr. Alak Roy**, an esteemed Assistant Professor from the Department of Information Technology, Tripura University.

The session began with an introduction by **Mr. Jyotirmoy Sil Sharma**, Head – Department of Computer Science, who welcomed the attendees and provided a brief overview of the importance of the topic. Following this, **Dr. Fr. Benny K. John (CSC)**, The Principal of Holy Cross College delivered the formal welcome address, introducing **Dr. Alak Roy** and commending his expertise in network simulations.

Session Highlights:

Dr. Alak Roy began the lecture by introducing NS2 (Network Simulator 2), a popular open-source tool used for simulating networking protocols and systems. He emphasized the importance of network simulation in both academic research and industrial applications. Dr. Roy explained how NS2 enables students and researchers to create various network topologies, analyze protocols, and simulate different network environments without the need for physical infrastructure.

The session covered:

- **Introduction to NS2:** Overview of its architecture, purpose, and features.
- **Installation and Setup:** Step-by-step guide on how to install and configure NS2 on various operating systems.
- **Simulation Basics:** Explanation of network elements, nodes, and protocols in NS2 simulations.
- **Practical Demonstration:** Dr. Roy provided live demonstrations of creating network simulations, running experiments, and interpreting results using the NS2 tool.

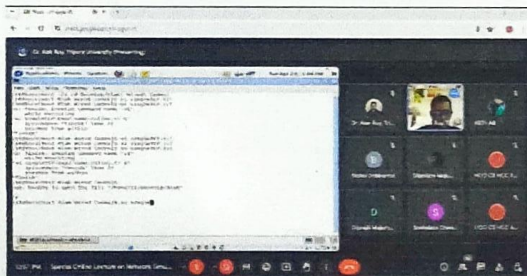
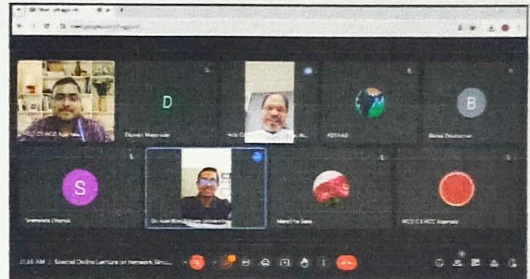
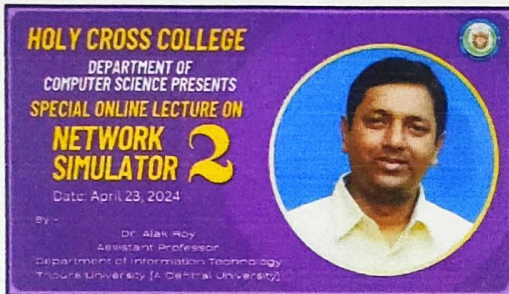
Throughout the session, Dr. Roy engaged the students with hands-on activities, allowing them to gain practical insights into the application of NS2 in simulating network scenarios. His approachable teaching style ensured that students were able to ask questions and clarify their doubts.

Conclusion:

The session concluded with a vote of thanks delivered by **Mr. Jyotirmoy Sil Sharma**, The Head of the Department of Computer Science, who appreciated Dr. Roy's insightful presentation and the practical value it brought to the students' understanding of network simulations.

Overall, the special lecture was highly informative and engaging, providing students with both theoretical knowledge and practical skills in network simulation using NS2.

Screenshots of the program:



Participants:

Sl. No	Name	Designation
1.	Jyotirmoy Sil Sharma	Assistant Professor
2.	Mandrita Saha	Assistant Professor
3.	Diprajit Majumder	Student
4.	Keshab Gowala	Student
5.	Bishal Debbarma	Student
6.	Snehalata Dhanuk	Student

Jyotirmoy Sil Sharma 23/04/2024

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