MVJ COLLEGE OF ENGINEERING
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Report - NIC CLUB ACTIVITY 'TECHFLAG', organized by Department of CSE

The NIC Club of MVJCE was proud to host this online technical event for Pre-final and Second year students. The event '**TECHFLAG'** is the ultimate test of codes and logic, and consists of 2 rounds which can be played individually or as a group. The cumulative scores are added to decide the winners.

The main event (Round 2), organized by Department of Computer Science and Engineering, was conducted on **18th November 2020** (Wednesday), via online platform Microsoft Teams App. It started at 1.30 pm and ended at 4.00 pm. **Prof. Kavyashree C**, **HoD CSE,** judged the event which was coordinated by Event Coordinator **Mrs. Ashwini HK**. Around 100 (50 teams) students from the CSE Department participated in the event.

Capture the Flag

CTF (Capture the Flag) is a kind of information security competition that challenges contestants to solve a variety of tasks ranging from a scavenger hunt on Wikipedia to basic programming exercises, to hacking your way into a server to steal data.

Event Mode - Online

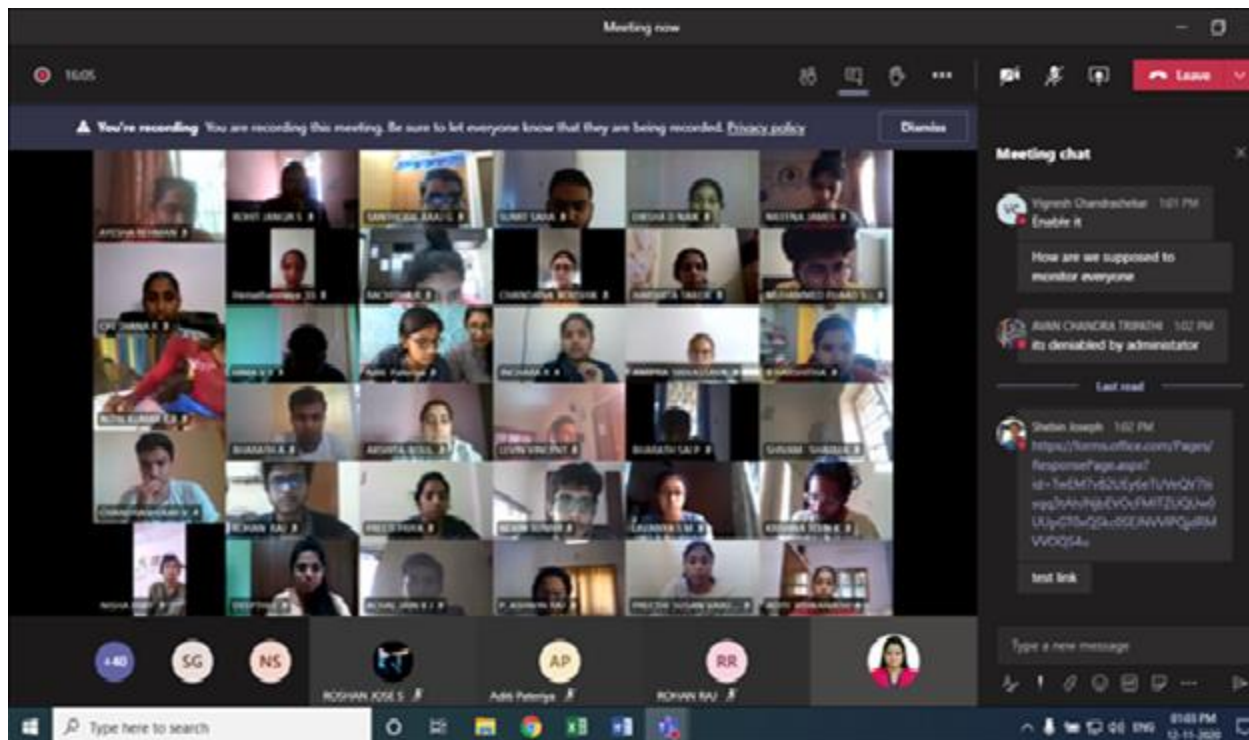Platform - Microsoft Azure Virtual Machine & MS Teams

Event Details - The participants were given access to the Azure Virtual Machine (A private IP address was given), they had to find all the flags in the least time possible (A few flags maybe skippable). A demo workshop was conducted to show how to connect to the Virtual Machine and a Mock CTF.

Round 1: Qualifying Round - Basic Linux MCQs (10 - 15 questions)

Round 1-5: Simple CTFs hidden in plain sight, just to check whether the participants know the basic Linux commands (like ls, cd, nano editor etc...)

Round 6-8: Challenging tasks to test whether the participants are comfortable in using the Command Line Tools and utilities (like CURL, WGET, SSH etc...)
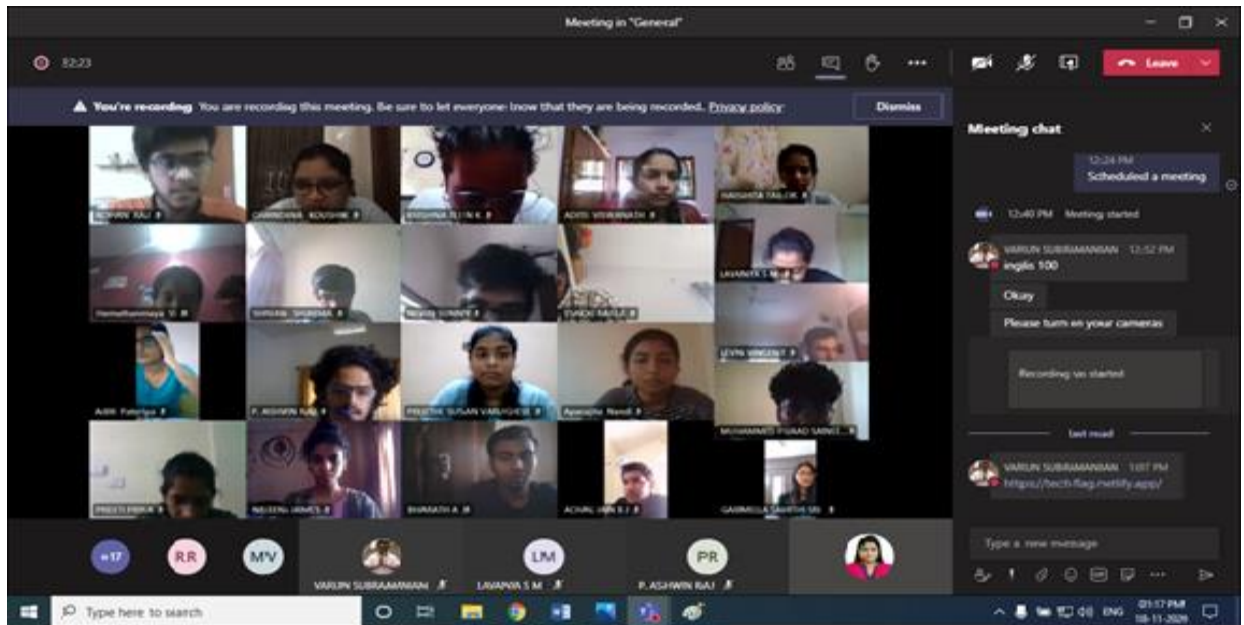
Round 9-10: A real CTF-like experience where the participants would be given the resources/tools (like Burpsuite etc.) and a task to exploit a web server.

NIC Club Event "TECHFLAG" organized by CSE Department: Students of pre-final & final year are participating in Round-1 in virtual mode. Qualifiers of this round undergone Pre-Workshop on Capture the Flag event. Round 1 was held on **12th November 2020**.

NIC Club Event "TECHFLAG" organized by CSE Department: Students who cleared Round 1 attended this Pre-Workshop held on MS Teams to understand the design process of Capture the Flag which is the final round event. The Pre-workshop was held on **15th November, 2020**.

NIC Club Event "TECHFLAG" organized by CSE Department: Conducting of the Pre-workshop by NIC Club student Coordinator's organized on MS Teams. The Pre-workshop was held on **15th November, 2020.**

NIC Club Event "TECHFLAG" organized by CSE Department: Student Coordinators explaining the Linux commands, Flag capture process etc on MS Teams. This Pre-workshop was held on **15th November, 2020.**

NIC Club Event "TECHFLAG" organized by CSE Department: All the students who qualified Round 1 are participating in final round of the event Capture the Flag (CTF) on MS Teams. The final round of the event was held on **18th November, 2020**

NIC Club Event "TECHFLAG" organized by CSE Department: The website view of the event Capture the Flag (CTF) designed by NIC Student Coordinators. The final round of the event was held on **18th November, 2020.**

NIC Club Event "TECHFLAG" organized by CSE Department: Virtual certificate distribution for runner's-up of the event Techflag. Student **Harshita Tailor** of 7th semester CSE receiving participation certificate from **HOD CSE Mrs Kavyashree.C** & NIC coordinator **Mrs. Ashwini HK**. The final round of the event was held on **18th November, 2020**.

NIC Club Event "TECHFLAG" organized by CSE Department: Virtual certificate distribution for runner's-up of the event Techflag. Student **Nileena James** of 7th semester CSE receiving participation certificate from **HOD CSE Mrs Kavyashree.C** & NIC coordinator **Mrs. Ashwini HK**. The final round of the event was held on **18th November, 2020**.

NIC Club Event "TECHFLAG" organized by CSE Department: Virtual certificate distribution for Winner's of the event Techflag. Student **Roshan Raj** of 3rd semester CSE receiving participation certificate from **HOD CSE Mrs Kavyashree.C** & NIC Coordinator **Mrs. Ashwini HK**. The final round of the event was held on **18th November, 2020.**

NIC Club Event "TECHFLAG" organized by CSE Department: Virtual certificate distribution for Winner's of the event Techflag. Student **Shivam Sharma** of 3rd semester CSE receiving participation certificate from **HOD CSE Mrs Kavyashree.C** & NIC coordinator **Mrs. Ashwini HK**. The final round of the event was held on **18th November, 2020.**

Outcome: The students were able to analyse, design and enhance their technical skills, applying it to various topics related to Computer Science field. This hands-on event also helped students to solve technical and

aptitude related queries. Students were able to gauge their potential and creative ideas through this animation concept. It will also help Pre-final year students to crack technical interviews, with ease.

The Winners of the NIC event 'TECHFLAG' are:

Winner's: 3rd semester 'C' Section, CSE Department:

1. ROSHAN RAJ - 1MJ19CS133

2. SHIVAM SHARMA - 1MJ19CS152

Runners-up: 7th semester 'B' Section, CSE Department:

1. NILEENA JAMES - 1MJ17CS107

2. HARSHITA TAILOR - 1MJ17CS062