Government of India

Ministry of Electronics and information Technology

National Informatics Centre, Himachal Pradesh, Shimla

Technical Presentations by NIC HP Officials: 17-August-2024

As part of an ongoing series of 10-minute technical talks presented by NIC officials of their choice on a regular basis, the recent technical session held on 17-August-2024.

The details of the presenters, along with their topics are as follows:

S.No.	Name	Designation	Topic	Rating (5.0)
1.	Sh. Sanjay Sharma	Scientist-F	Application Cyber Security	4.6
2.	Sh. Shailender Kaushal	Scientist-F	Cybercrime Incident Reporting	4.7
3.	Sh. Ashwani Kumar	Scientist-E	Digital Skills for Digital Transformation	3.9
4.	Sh. Lalit Kapoor	Scientist-F	Group Presentation	4.6
5.	Sh. Daljeet Singh Rana	Scientist-E	Technical News	4.3

Application Cyber Security

Sh. Sanjay Sharma, Scientist-'F' gave a presentation on Application Cyber Security. Application Cybersecurity focuses on protecting software applications from threats and vulnerabilities that could lead to unauthorized access, data breaches, or other malicious activities. It involves a range of practices and technologies designed to secure the software development lifecycle, from design and coding to deployment and maintenance.

Sh. Sanjay Sharma giving the Technical Talk on Application Cyber Security

In the planning and design phases, potential security threats should be identified and addressed. Developers should adhere to secure coding practices to prevent common vulnerabilities like SQL injection, cross-site scripting (XSS), and buffer overflows. This can be achieved by following guidelines such as the OWASP Top Ten, which outlines the most critical security risks to web applications.

Authentication and Authorization ensure that only legitimate users have access to the application and that they have appropriate permissions. Implementing MFA adds an additional layer of security by requiring users to provide multiple forms of verification before gaining access. Role based access control ensures that users only have access to the information and functions necessary for their role, minimizing the risk of insider threats.

Data should be encrypted both at rest and in transit. This helps protect sensitive information, such as personal data and financial information, from unauthorized access.

Cybercrime Incident Reporting

The presentation by Sh. Shailender Kaushal, on cybercrime incident reporting includes statistics on the number of reported cybercrimes from 2019 to 2024 (for the first four months), which shows a significant increase over the years, peaking at 18,00,000 in 2023 and then dropping to 26,049 in 2024 (for the first four months).

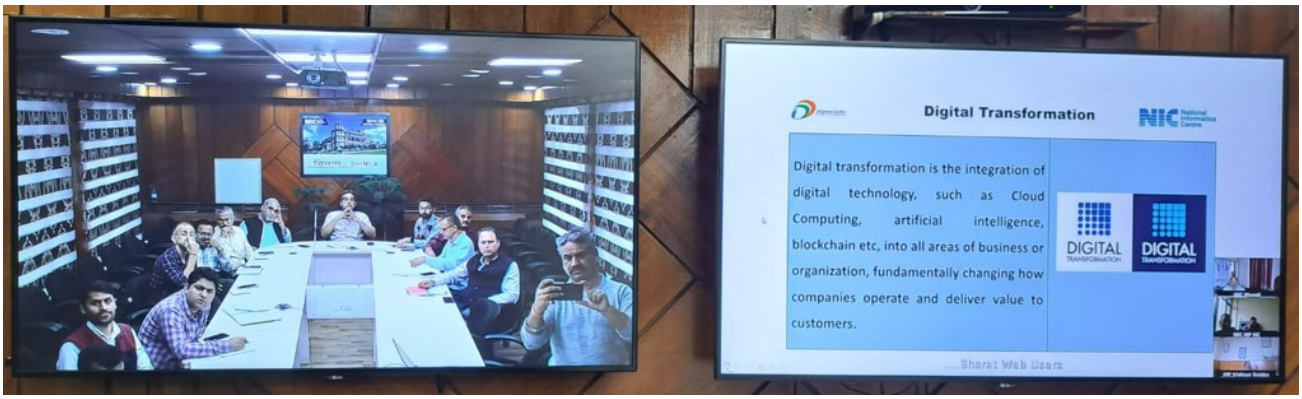
Sh. Shailender Kaushal giving presentation on Cybercrime Incident Reporting

The presentation outlines various tactics and strategies used by cybercriminals, such as creating fake web portals, conducting phishing campaigns through phone calls, SMS, WhatsApp, and email. It also provides information on how to report cybercrimes, defining them as unlawful acts involving computers or communication devices. The presentation highlights the cybercrime reporting portal (https://cybercrime.gov.in) and the toll-free number (1930) for reporting such incidents.

Additionally, the presentation introduces the Sanchar Saathi portal https://sancharsaathi.gov.in/ , an initiative by the Department of Telecommunications aimed at empowering mobile subscribers. Sanchar Saathi allows users to check mobile connections issued in their name, block and trace lost or stolen mobile phones, verify the genuineness of devices when purchasing new or used phones, and report suspected fraud.

The presentation concludes with instructions on reporting suspected phishing emails to incident@nic-cert.nic.in and mentions follow-up calls, presumably for further assistance or investigation.

Digital Skills for Digital Transformation



Sh. Ashwani Kumar giving presentation on Service Plus

The presentation by Ashwani Kumar discusses the role of digital skills in the context of digital transformation. Digital transformation is defined as the integration of digital technologies, including cloud computing, AI, and blockchain, into all aspects of a business, leading to fundamental changes in operations and customer value delivery.

The importance of digital skills is underscored by the projection that by 2025, 90% of jobs will require digital skills, yet 70% of employees currently lack these skills. The document identifies key digital skills necessary for digital transformation, which include data analysis and interpretation, cloud computing and SaaS, cybersecurity and data privacy, AI and machine learning, and communication and collaboration tools.

Data analysis and interpretation involve steps like data cleaning, transformation, visualization, modeling, and hypothesis testing, leading to insight generation and recommendations. Cloud computing and SaaS offer on-demand access to computing resources and software applications over the internet, respectively, providing scalability, flexibility, and cost savings.

The benefits of digital skills include improved productivity and efficiency, enhanced customer experience, increased innovation and competitiveness, better data-driven decision-making, and higher employee engagement and retention.

Group Presentation

Sh. Lalit Kapoor, giving the Group presentation

Sh. Lalit Kapoor, delivered a group presentation updating about the projects being looked after by his group members. He provided details on ongoing projects and current activities managed by his groups and their future plans.

Technical News

Sh. Daljeet Singh Rana giving the Technical News

Sh. Daljeet Singh Rana presented the fortnightly technical news. He discussed the amendments to the Citizenship Amendment Act. Additionally, he mentioned the delay in the implementation of the Digital Personal Data Protection Act. He also informed about the training on digital evidence collection using the eSakshya app to enhance transparency in the investigative process. He told that the 52% increase in the budget allocation to the MeitY in the current financial year, with around 60% of this increase directed towards the AI and Semiconductor Mission of India. Lastly, he reported that Jio's share of data traffic in India has significantly risen by about 60% in FY2024.

Quiz Competition on Mobile App

A quiz competition was also organized based on the technical presentations delivered by NIC Officials. A total of 31 officials participated in the quiz competition which was held on the Hindi Bodh Mobile App developed by NIC HP. 12 multiple-choice questions based on the technical content delivered by the officers were asked in the quiz competition.

The result of the quiz competition was as follows:

Position	Participant Name	Designation	Place of Posting
1st	Sh. Daljeet Singh Rana	Scientist-E	NIC HP State Centre
2nd	Sh. Brijender Kumar Dogra	Scientist-E	NIC Distt Centre Kullu
3rd	Sh. Sandeep Kumar	Scientist-F	NIC HP Vidhan Sabha

NIC HP officials attending the technical session

As agreed that the following NIC officials will present a technical talk on the topic of their choice during the upcoming meeting scheduled for coming working Friday, 06-September-2024.

S.No.	Participant Name	Designation	Place of Posting
1.	Sh. Vijay Kumar	Scientist-E	NIC Distt Centre Sirmour
2.	Sh. Deepak Kumar	Scientist-C	NIC Distt Centre Shimla
3.	Smt. Vandana Sankhayan	Scientist-C	NIC HP State Centre

Additionally, Sh. Sanjay Kumar, Scientist-F from NIC HP CGO Complex will deliver a Projects based presentation and 5-minute technical news update will be given by Sh. Mangal Singh on the day of the Technical Talk Session. After the presentation, 10 minutes will be allocated for discussions on the Technical Talk and the Technical News.

The following officials were present in the technical talk on 17-08-2024:

NIC HP State Centre		
1	Sh. Ajay Singh Chahal	SIO-Cum-Scientist-G
2	Sh. Lalit Kapoor	Scientist-F
3	Sh. Sandeep Sood	Scientist-F
4	Sh. Sanjay Kumar	Scientist-F
5	Sh. Sanjay Sharma	Scientist-F
6	Sh. Vijay Kumar Gupta	Scientist-F
7	Sh. Vimal Kumar Sharma	Scientist-F
8	Sh. Sandeep Kumar	Scientist-F
9	Sh. Shailender Kaushal	Scientist-F
10	Sh. Daljeet Singh Rana	Scientist-E
11	Sh. Sanjay Thakur	Scientist-E
12	Sh. Sarvjeet Kumar	Scientist-C
13	Smt. Vandana Sankhayan	Scientist-C
14	Sh. Mukesh Kumar	Scientist-D
15	Sh. Prithvi Raj	Scientist-C
16	Sh. Chunni Lal	Scientist-C
17	Sh. Jitender Sharma	Scientific Officer -SB

District Centre Hamirpur		
18	Sh. Vinod Kumar Garg	Scientist-F
19	Sh. Anurag Gupta	Scientist-E
District Centre Kangra		
20	Sh. Bhupinder Pathak	Scientist-F
21	Sh. Akshay Mehta	Scientist-E
District Centre Kinnaur		
22	Sh. Balwan Singh	Scientist-D
District Centre Kullu		
23	Sh. Brijender Kumar Dogra	Scientist-E
District Centre Mandi		
24	Sh. Akhilesh Bharati	Scientist-F
25	Sh. Ashwani Kumar	Scientist-E
District Centre Shimla		
26	Sh. Pankaj Gupta	Scientist-F
27	Sh. Deepak Kumar	Scientist-C
District Centre Sirmour		
28	Sh. Vijay Kumar	Scientist-E
29	Sh. Mohan Rakesh Aggarwal	Scientist-D
District Centre Solan		
30	Sh. Sanjeev Kumar	Scientist-C
31	Sh. Swetansh Shatak	Scientific/Technical Assistant-B
District Centre Una		
32	Sh. Sanjeev Kumar	Scientist-E