

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 05-October-2024.

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

S.No.	Name	Designation	Topic	Rating (5.0)
1.	Sh. Akhilesh Bharati	Scientist-F	Public Speaking	4.8
2.	Sh. Akshay Mehta	Scientist-E	Quantum Computing	3.9
3.	Sh. Vijay Kumar Gupta	Scientist-F	Group Presentation	4.4
4.	Sh. Vinod Kumar Garg	Scientist-F	Technical News	4.4

## Public Speaking



*Sh. Akhilesh Bharati giving the presentation on Public Speaking*

Sh. Akhilesh Bharti has delivered a wonderful presentation on Public speaking which is defined as the act of delivering a speech or presentation to an audience, with the intent of sharing information, ideas, or opinions. Effective public speaking relies on five key pillars: Body Language, Voice, Structure, Clarity, and Impact.

- **Body Language:** This includes facial expressions, body movement, posture, and gestures. Maintain a confident posture, make eye contact, and project your voice.
- **Voice:** Important aspects are pitch, pace, pause, and the ability to convey emotions. Speak clearly and at an appropriate pace to ensure your message is understood.
- **Structure:** A well-structured presentation should have a clear introduction, engaging content, and a strong conclusion.
- **Clarity:** Organize your thoughts, practice your speech, and be familiar with your topic. Effective communication should be clear, specific, precise, and sensory.
- **Impact:** Engaging the audience is crucial, which involves observing their reactions, maintaining eye contact, and involving them in the presentation. Interact with your audience by asking questions, using gestures, and varying your tone to keep attention.
- **Adaptability:** Be prepared to adjust your delivery based on audience reactions and feedback.



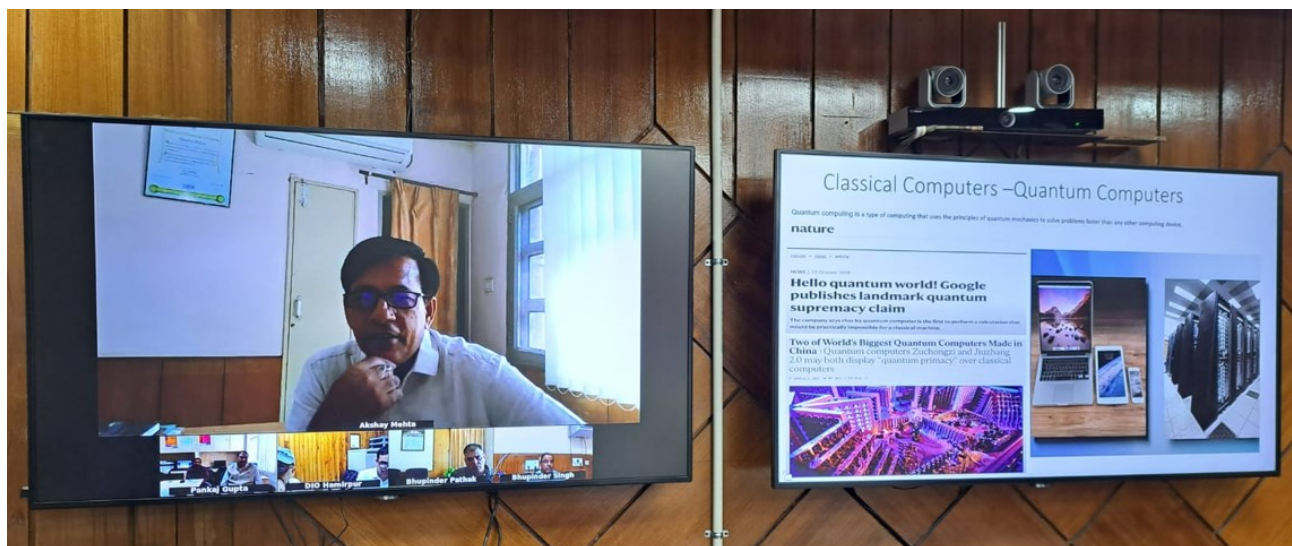
*Sh. Akhilesh Bharti giving the presentation on Public Speaking*

Developing strong public speaking skills enhances communication and helps in professional and personal settings. Ultimately, effective public speaking is not merely about conveying information; it is about inspiring, motivating, and connecting with the audience.

### **Quantum Computing**

Sh. Akshay Mehta delivered a presentation on Quantum Computing where the Quantum computers work based on the principles of quantum mechanics, which allows them to process information in fundamentally different ways compared to classical computers.

Instead of using traditional bits (0 or 1), quantum computers use qubits, which can exist in both 0 and 1 simultaneously due to superposition. This allows quantum computers to perform many calculations in parallel, increasing their computational power for certain tasks.



*Sh. Akshay Mehta giving presentation on Quantum Computing*

Another key principle is entanglement, where qubits become interconnected, meaning the state of one qubit directly influences the state of another, even at a distance. These phenomena enable quantum computers to potentially solve complex problems, such as cryptography, optimization, and molecular simulations, much faster than classical computers.

However, quantum computing is still in its early stages, with significant challenges in maintaining qubit stability and error correction. Despite this, it holds immense promise for the future of computing, offering revolutionary speed and efficiency for specialized applications.

## Technical News



*Sh. Vinod Kumar Garg giving the Technical News*

Sh. Vinod Kumar Garg presented the fortnightly technical news. The main news covered:

- Microsoft has recently unveiled several significant updates to its Copilot AI, aiming to make it more human-like and supportive.
- Google Gemini Live to include more Regional Languages
- AI Summarized reviews on Google Maps
- AI Literacy for 10 million Indians has been announced
- Google enhanced Fraud Protection

## Group Presentation



*Sh. Vijay Kumar Gupta, Scientist-F giving the Group presentation*

Sh. Vijay Kumar Gupta, delivered a group presentation updating about the projects being looked after by him and his group members. He provided details on the ongoing projects specifically the projects under Finance and Labour sectors. He elaborated current activities managed by his groups and their future plans.

## Quiz Competition on Mobile App

A quiz competition was also organized based on the technical presentations delivered by NIC Officials. A total of 24 officials participated in the quiz competition which was held on the Hindi Bodh Mobile App developed by NIC HP. 15 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
1 <sup>st</sup>	Sh. Akhilesh Bharati	Scientist-F	NIC HP State Centre
2 <sup>nd</sup>	Sh. Vinod Kumar Garg	Scientist-F	NIC HP State Centre
3 <sup>rd</sup>	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 Saturday, 19-October-2024.

S.No.	Participant Name	Designation	Place of Posting
1.	Smt. Vandana Sankhayan	Scientist-C	NIC HP State Centre
2.	Sh. Chander Shekhar	Scientific/Technical Assistant-A	NIC HP State Centre
3.	Sh. Jagdeep	Scientific/Technical Assistant-A	NIC Distt Centre Lahual& Spiti

Additionally, Sh. Sanjay Sharma, Scientist-F from NIC HP State Centre will deliver a Projects based presentation and 5-minute technical news update will be given by Sh. Ashish Sharma, Scientist-D on the day of the Technical Talk Session.

The following officials were present in the technical talk on 05-10-2024:

<b>NIC HP State Centre</b>		
1	Sh. Ajay Singh Chahal	SIO-Cum-Scientist-G
2	Sh. Lalit Kapoor	Scientist-F
3	Sh. Bhupinder Pathak	Scientist-F
4	Sh. Pankaj Gupta	Scientist-F
5	Sh. Sanjay Sharma	Scientist-F
6	Sh. Vijay Kumar Gupta	Scientist-F
7	Sh. Vimal Kumar Sharma	Scientist-F
8	Sh. Vinod Kumar Garg	Scientist-F
9	Sh. Akhilesh Bharati	Scientist-F
10	Sh. Sandeep Kumar	Scientist-F
11	Sh. Daljeet Singh Rana	Scientist-E
12	Sh. Mangal Singh	Scientist-D
13	Sh. Sarvjeet Kumar	Scientist-C
14	Smt. Vandana Sankhayan	Scientist-C
15	Sh. Prithvi Raj	Scientist-C
16	Sh. Chunni Lal	Scientist-C
17	Sh. Jitender Sharma	Scientific-B
18	Smt. Pooja Mann	Scientific/Technical Assistant-A
19	Sh. Chander Shekhar	Scientific/Technical Assistant-A
20	Sh. Himanshu Gupta	Steno Grade-III
<b>District Centre Hamirpur</b>		
21	Sh. Anurag Gupta	Scientist-E
<b>District Centre Kangra</b>		
22	Sh. Akshay Mehta	Scientist-E
<b>District Centre Kinnaur</b>		
23	Sh. Balwan Singh	Scientist-D
<b>District Centre Kullu</b>		
24	Sh. Brijender Kumar Dogra	Scientist-E

<b>District Centre Lahual &amp; Spiti</b>		
25	Sh. Jagdeep	Scientific/Technical Assistant-A
<b>District Centre Mandi</b>		
26	Sh. Ashwani Kumar	Scientist-E
<b>District Centre Shimla</b>		
27	Sh. Deepak Kumar	Scientist-C
<b>District Centre Sirmour</b>		
28	Sh. Vijay Kumar	Scientist-E
29	Sh. Mohan Rakesh Aggarwal	Scientist-D
<b>District Centre Solan</b>		
30	Sh. Sanjeev Kumar	Scientist-C
<b>District Centre Una</b>		
31	Sh. Bhupinder Singh	Scientist-D