

## **A Guest Lecture Series on “Digital Hygiene: Staying Secure in Cyber Space”**

**(24<sup>th</sup> January, 2022)**

On the occasion of CUHP foundation week celebration (20-26<sup>th</sup> Jan, 2022), A Guest Lecture Series on the topic “Digital Hygiene: Staying Secure in Cyber Space” was organized by the Department of Computer Science and Informatics, Central University of Himachal Pradesh on 24<sup>th</sup> January, 2022 through online mode(Google Meet).Prof. Rakesh Kumar, Dean and Head of Department, Department of Computer Science and Informatics, extends a warm welcome to the speaker. The speaker **Dr. Yashwant Singh, Associate Professor, Dept. of Computer Science & IT, Central University of Jammu** presented his views on the above mentioned topic. The vote of thanks was presented by Mr. Ajay Kumar, Organizing Secretary, Computer Science and Informatics. The talk was witnessed by the entire department's teachers, Ph.D. Scholars, and students. Finally, there were a lot of questions and answers at the end of the lecture. This lecture was really well received by the students because it was very relevant to them. The following are a few highlights from the lecture series.

  
विभागाध्यक्ष, कंप्यूटर एवं सूचना विज्ञान विभाग  
Head, Department of Computer Sciences & Informatics  
हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय  
Central University of Himachal Pradesh  
अस्थायी शैक्षणिक खण्ड/Temporary Academic Block  
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**CENTRAL UNIVERSITY OF  
HIMACHAL PRADESH**



**Celebrating the Establishment week  
20th - 26th Jan 2022,  
Dept. of Computer Science and Informatics  
invite you to join an online guest lecture on**

**Digital Hygiene : Staying Secure in Cyber Space**

Date : 24th of January, 2022

Time : 4:00 - 5:00pm



**Guest Speaker :**  
**Dr. Yashwant Singh**  
Head, Dept. of Computer  
Science & IT,  
Central University of Jammu.

**CONVENER :**  
**Prof. Rakesh Kumar**  
Head, Dept. Of Computer  
Science & Informatics, CUHP.

**Organising Secretary :**  
**Mr. Ajay Kumar**  
Assistant Professor,  
Dept. Of Computer Science  
& Informatics, CUHP



<https://meet.google.com/hwj-nrnp-oqy>

  
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Yashwant singh is presenting

## Industrial Revolutions

1st	2nd	3rd	4th
Mechanization, water power, steam power	Mass production, assembly line, electricity	Computer and automation	Cyber Physical Systems

1/24/2022 Invited Talk CUHP January 24-01 2022 3

4:06 PM | Invited Talk by Dept. of CSI, CUHP

Yashwant singh is presenting

## Background

- Cyberspace:** Complex environment of people, software, hardware and services
  - Common, but important tool being used by citizens, civil society, industry, business community, governments for communication
- Virtual | Borderless | Anonymous :** Fragile yet powerful
- Scale of a cyber related incident can take any form:** A small attack or a nationwide disaster damaging key information, assets and reputation

**Security : An important part of National Agenda**

- Key component to measure the success of ambitious 'Digital India' programme of the Government
- Requires a robust framework for making the cyberspace secure and resilient

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4:13 PM | Invited Talk by Dept. of CSI, CUHP

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4:17 PM | Invited Talk by Dept. of CSI, CUHP

People

Mute all Add people Host controls

Search for people

In call

- Ajay Kumar (You) Meeting host
- 15.Nirbhay Thakur
- Aanchal Pal MCA01
- Abhay Thakur
- Abhishek Thakur

52 others

4:17 PM | Invited Talk by Dept. of CSI, CUHP

People

Mute all Add people Host controls

- Abhishek Thakur
- Aman MCA05 Kumar Dhi...
- Anitathakur\_07
- Anjali 05
- Ankush Shandil
- Anuraag Rathore
- ARTI SHARMA
- ASHWANI KUMAR

51 others

  
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## Cyber Threats

**Individual level**

- Ransom ware
- Malware
- Advanced Persistent Threats (APTs)
- Social Engineering
- Email hacking & misuse
- Identity theft & phishing
- Financial scams
- Abuse through emails
- Abuse through Social Networking sites
- Mobile device threats
- Laptop theft

**Organizational level**

- Website intrusion/defacement
- Domain stalking
- Malicious Code
- Scanning and probing
- Denial of Service & Distributed Denial of Service
- Targeted attacks
- Phishing
- Data theft
- Insider threats
- Financial frauds

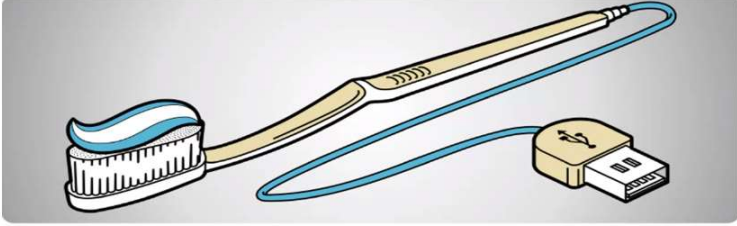
**National level**

- Cyber Terrorism
- Attacks on Critical Infrastructure
- Web defacement
- Website intrusion and malware propagation
- Malicious Code
- Scanning and probing
- Denial of Service & Distributed Denial of Service
- Anonymous Applications

4:24 PM | Invited Talk by Dept. of CSI, CUHP

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### Digital Hygiene

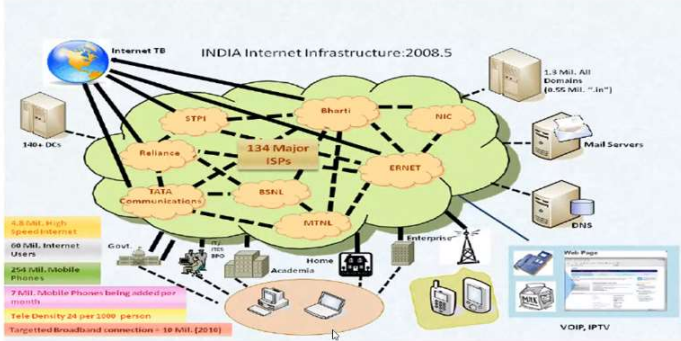
### Staying Safe in Cyberspace

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4:30 PM | Invited Talk by Dept. of CSI, CUHP

  
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## Internet Infrastructure in INDIA



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## Turn off File/Print Sharing

- Many attacks will allow a malicious hacker to have complete read/write access to the contents of your hard-drive.
- Be careful when using WiFi Hotspots.

NOTE: File sharing may be enabled by default when Windows is installed onto your computer.

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## Install a Firewall

- A firewall can block malware that could otherwise scan your computer for vulnerabilities and then try to break in at a weak point.
- Use a wired or wireless router with firewall features to provide additional protection.

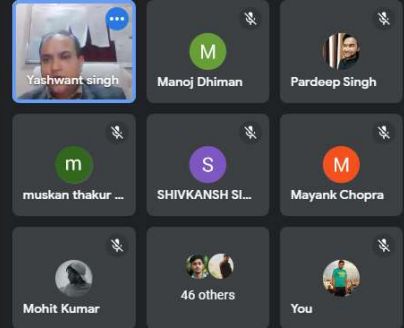


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65



Yashwant singh

Manoj Dhiman

Pardeep Singh

muskan thakur ...

SHIVKANSH SI...

Mayank Chopra


Mohit Kumar

46 others

You

## Scan for Viruses

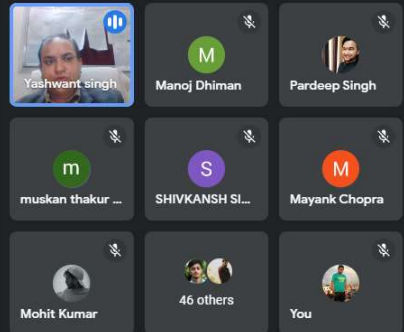
- Scan your machine regularly
- Use AV program with:
  - Real-time scanning
  - Automatic Updates
  - Email Scanning
- Many AV programs require an annual subscription.



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Pardeep Singh

muskan thakur ...

SHIVKANSH SI...

Mayank Chopra

Mohit Kumar

46 others


You

  
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## Strong Passwords

- Do not use personal information
- Use mixed case passwords with numbers and special characters.
- Change passwords often
- Use pass phrases rather than passwords
  - Select a phrase that is easy to remember = 5@ptietr



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Participant list:

- Yashwant singh
- Manoj Dhiman
- Pardeep Singh
- Sahil Thakur M...
- SHIVKANSH SI...
- Mayank Chopra
- Mohit Kumar
- 47 others
- You

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## Cyber Attack Surface

- **Network Attack Surface**
  - Open ports
  - Services (Email,DNS,CHAT, etc.)
  - Wi-Fi connectivity
  - Vulnerable Network devices
  - Default network settings
- **Software Attack Surface**
  - Software Patches
  - Free open source software
  - Pirated software
  - Software cracks
- **Human Attack Surface**
  - Social engineering
  - Social websites
  - Bring Your Own Devices policies
  - Human Operators
- **IoT devices**

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Participant list:

- Yashwant singh
- Manoj Dhiman
- Pardeep Singh
- Sahil Thakur M...
- SHIVKANSH SI...
- Mayank Chopra
- Mohit Kumar
- 44 others
- You

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## Cyber Hygiene In our Daily Life

- Cyber Hygiene at Office space
- Cyber Hygiene at Public places
- Cyber Hygiene at Home
- Personal Cyber Hygiene

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## 7 Steps to Better Cyber security Hygiene


1. Identify critical data
2. Emphasize multi-factor, strong identification
3. Patch systems and automated processes
4. Prevent data leakage
5. Teach good hygiene at all levels
6. Encrypt data at rest and in motion
7. Perform real world breach simulations

Ref://Microsoft/seven-steps-to-better-cybersecurity-hygiene

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Participants: Yashwant singh, Manoj Dhiman, Pardeep Singh, Sahil Thakur M..., SHIVKANSH SI..., Mayank Chopra, Mohit Kumar, 45 others, You.

  
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The screenshot shows a Zoom meeting in progress. The main window displays a grid of participants:

- Top row: Sahil Thakur MCA 22 (video off), Yashwant singh (video on), Manoj Dhiman (video off, green circle icon).
- Middle row: Pardeep Singh (video off), SHIVKANSH SINGH MCA25 (video off, purple circle icon), Mayank Chopra (video off, orange circle icon).
- Bottom row: Mohit Kumar (video off, profile picture), 47 others (video off, profile picture), You (video on, profile picture).

The bottom status bar shows the time as 4:56 PM and the meeting title as "Invited Talk by Dept. of CSI, CUHP".

The 'In-call messages' sidebar on the right is open, showing a toggle for "Let everyone send messages" which is turned on. It contains the following messages:

- You** 4:53 PM: This is really a very informative hygiene for us computer scientist
- Aman MCA05 Kumar Dhiman** 4:54 PM: In society 5 ,when the all things are online, then , what main precautions should be taken to secure the our personal information.
- Shivanshu 28** 4:54 PM: Can we detect an attempted or successful cybersecurity incident, attack, or data breach?

At the bottom of the sidebar, there is a text input field with the placeholder "Send a message to everyone" and a send button.

  
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**A Guest Lecture Series on “Usage of Technologies for Teaching Learning Process in Covid-19”  
(25<sup>th</sup> January 2022)**

On the occasion of CUHP foundation week celebration (20-26<sup>th</sup> Jan, 2022), A Guest Lecture Series on the topic “Usage of Technologies for Teaching Learning Process in Covid-19” was organized by the Department of Computer Science & Informatics, Central University of Himachal Pradesh on 25<sup>th</sup> January, 2022 through online mode (Google Meet). Prof. Rakesh Kumar, Dean and Head of Department, Department of Computer Science and Informatics, extends a warm welcome to the speaker. The speaker Dr. Kamlesh Kumar Raghuvanshi, Assistant Professor, Dept. of Computer Science, Ramanujan College, University of Delhi, presented his views on the above mentioned topic. The vote of thanks was presented by Mr. Ajay Kumar, Organizing Secretary, Computer Science and Informatics. The talk was witnessed by the entire department's teachers, Ph.D. Scholars, and students. Finally, there were a lot of questions and answers at the end of the lecture. This lecture was really well received by the students because it was very relevant to them. The following are a few highlights from the lecture series.

  
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**Celebrating the Establishment week  
20th - 26th Jan 2022,**

**Dept. of Computer Science and Informatics  
invite you to join an online guest lecture on**

### **Usage of Technologies for Teaching Learning Process in Covid-19**

**Date : 25th of January, 2022**

**Time : 4:00 - 5:00pm**



**Guest Speaker :**  
**Dr. Kamlesh Kumar Raghuvanshi**  
Assistant Professor  
Dept of Computer Science,  
Ramanujan College,  
University of Delhi.

**CONVENER :**  
**Prof. Rakesh Kumar**  
Head, Dept. Of Computer  
Science & Informatics, CUHP.

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Dr Kamlesh kumar Raghuvanshi is presenting

Use of technologies for Teaching - Learning Process in Covid - 19

Dr Kamlesh Kumar Raghuvanshi  
Department of Computer Science  
Ramanujan College, University of Delhi

Komal MCA 11 has left the meeting

meet.google.com is sharing your screen

5:12 PM | Guest lecture 2

Pardeep Singh, Dr Kamlesh k..., Pankaj Kumar, SHIVKANSH SI..., Shivanshu 28, Partiksha 21, Abhay Thakur, 35 others, You

Dr Kamlesh kumar Raghuvanshi is presenting

## Overview

- During COVID-19 pandemic, distance learning technologies are developing rapidly.
- Many educational organizations adopt these technologies.
- Mobile technology and its role in the e-learning process becomes crucial.
- Focus needs to be shifted to one of the basic component of Education i.e. *Right to Equality*.
- Need to design solutions that provides **100% inclusiveness** irrespective of cost and space.

5:13 PM | Guest lecture 2

Pardeep Singh, Dr Kamlesh ku..., Pankaj Kumar, SHIVKANSH SI..., Shivanshu 28, Partiksha 21, Abhay Thakur, 34 others, You

  
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5:15 PM | Guest lecture 2

Dr Kamlesh kumar Raghuvanshi is presenting

## Challenges

- Lack of ICT knowledge
- Lack of time /training/access
- Complexity of integrating ICT
- Limitation of infrastructure
- Lack of technical support
- Attitude toward ICT
- Resistance to change

5:20 PM | Guest lecture 2

  
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Dr Kamlesh kumar Raghuvanshi is presenting

# Components of Teaching Learning Process

- Technology
- Teacher Student Interaction
- Management and Administration
- Technical Knowledge
- Conductive environment
- Course Management
- Assessment

5:23 PM | Guest lecture 2

Dr Kamlesh kumar Raghuvanshi is presenting

# Impact of e-learning

- Learn from experts beyond geographical boundaries
- Access of digital information efficiently and effectively
- Produce a creative learning environment.
- Improve and enhance teaching and learning quality.
- Promote problem solving and develop critical high-order thinking skills

5:28 PM | Guest lecture 2

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Dr Kamlesh kumar Raghuvanshi is presenting

## Pre - Requisites

- Technology and content readiness
- Pedagogical and home learning support readiness
- Monitoring and evaluation readiness
- Policy planning and financing readiness

Pardeep Singh

Dr Kamlesh kumar Raghuvanshi

38 others

Mute all Add people Host controls

Diksha 12

Dixa 13

Dr Kamlesh kumar Raghuvanshi

Dr Kamlesh kumar Raghuvanshi Presentation

Mohit 15

Nitish 19

Nikita Sharma

Bankaj Kumar

5:29 PM | Guest lecture 2

Dr Kamlesh kumar Raghuvanshi is presenting

## Inclusive Education (Pre-post Covid 19)

Pardeep Singh

Dr Kamlesh kumar Raghuvanshi

37 others

Mute all Add people Host controls

SHIVKANSH SINGH MCA25

Sourav Jaryal

vaishali MCA29

vaishali ranaMCA\_30

Vikas MCA 31

yashvant 31

Yogindra MCA33

5:34 PM | Guest lecture 2

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Dr Kamlesh kumar Raghuvanshi is presenting

## Facts to Consider

- 36% Indian kids lacked Internet access during Covid lockdown#
- Two thirds of the world's school-age children have no internet access at home \*
- **258 million entirely excluded from education\***

# Times of India | <https://www.timesofindia.com/india/36-percent-of-indian-kids-lacked-internet-access-during-covid-lockdown-2020-11-17-story.html>  
 \*UNICEF-ITU report 20-21

Pardeep Singh

Dr Kamlesh kumar Raghuvanshi

36 others

You

In-call messages

Let everyone send messages

Messages can only be seen by people in the call and are deleted when the call ends.

Pardeep Singh 4:52 PM  
Welcome mayank sir good afternoon

Pardeep Singh 20 5:07 PM  
Thank you sir

Ankush Shandil 5:35 PM  
Very informative session.

You 5:36 PM  
Very nice PPT and content also. Thanks sir for your valuable time.

Send a message to everyone

5:36 PM | Guest lecture 2

Dr Kamlesh kumar Raghuvanshi is presenting

## Essentials of Learning Management System

Web Based Platform

Intuitive Design

Dynamic & Flexible

Discussion forums

Easy to Update

User Friendly

Features of Effective LMS

Pardeep Singh

Dr Kamlesh kumar Raghuvanshi

35 others

You

In-call messages

Let everyone send messages

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Pardeep Singh 4:52 PM  
Welcome mayank sir good afternoon

Pardeep Singh 20 5:07 PM  
Thank you sir

Ankush Shandil 5:35 PM  
Very informative session.

You 5:36 PM  
Very nice PPT and content also. Thanks sir for your valuable time.

Send a message to everyone

5:38 PM | Guest lecture 2

  
 विभागाध्यक्ष, कंप्यूटर एवं सूचना विज्ञान विभाग  
 Head, Department of Computer Sciences & Informatics  
 हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय  
 Central University of Himachal Pradesh  
 अस्थायी शैक्षणिक खण्ड/Temporary Academic Block  
 शाहपुर, कांगड़ा (हि.प्र.)/Shahpur, Kangra (H.P.)-176206

The image shows two screenshots of a Zoom meeting interface. The top screenshot is taken at 6:02 PM and the bottom at 6:03 PM. Both show a grid of participants and an 'In-call messages' panel on the right.

**Participants in the grid:**

- Ashwani kumar MCA09
- Dr Kamlesh kumar Raghuvanshi (highlighted)
- Pardeep Singh
- SHIVKANSH SINGH MCA25
- Shivanshu 28
- Partiksha 21
- Diksha 12
- 36 others
- You (visible in a video window)

**In-call messages panel (top screenshot):**

- Let everyone send messages:
- Messages can only be seen by people in the call and are deleted when the call ends.
- for 9.30 to 3.30 its difficult to stay, online
- yashvant 31 5:56 PM: Nice lecture sir, Thank you for your valuable time 🙏
- Aanchal Pal MCA01 6:00 PM: Thank you sir for the informative session.
- titu kumar 6:02 PM: You have always guided our and showed me the right path to success. Thank you, teacher, you are the best.

**In-call messages panel (bottom screenshot):**

- Let everyone send messages:
- Messages can only be seen by people in the call and are deleted when the call ends.
- Pardeep Singh 20 5:55 PM: Thank you sir for this wonderful session.
- Aman MCA05 Kumar Dhiman 5:55 PM: Online learning is good, but in the regular classes, for 9:30 to 3:30 its difficult to stay, online
- yashvant 31 5:56 PM: Nice lecture sir, Thank you for your valuable time 🙏
- Aanchal Pal MCA01 6:00 PM: Thank you sir for the informative session

  
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6:07 PM | Guest lecture 2

In-call messages

Let everyone send messages

Messages can only be seen by people in the call and are deleted when the call ends.

Aman MCA05 Kumar Dhiman 6:03 PM  
Sometimes in rural areas internet coverage is not good because himachal has mostly rural areas, in that case, audio and video are not clear, in that case how online learning is useful. In my prospective, online learning is good but, for add on courses or side wise courses, but in regular classes sometimes online classes not work properly.

Shivanshu 28 6:03 PM  
Can we have another placement related lecture from you whenever you are free sir.

Send a message to everyone

6:10 PM | Guest lecture 2

In-call messages

Let everyone send messages

Messages can only be seen by people in the call and are deleted when the call ends.

Hi sir i wanted to know about the deployment part of Blockchain based Certificate web app

Pankaj Kumar 6:04 PM  
Very nice lecture Sir

yashvant 31 6:06 PM  
Can you please take one lecture related to placement please sir 🙏

Aman MCA05 Kumar Dhiman 6:08 PM  
Thank You Sir.

Send a message to everyone

  
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## **Two days online national seminar on “Emerging Trends in Information and Communications Technologies” (27 – 28 January 2022)**

On the occasion of CUHP foundation day celebration, two days online national seminar on “Emerging trends in Information and Communications Technologies” was organized by the Department of Computer Science, Central University of Himachal Pradesh during 27 – 28 January 2022 through online medium Google Meet. The Coordinator, CUHP foundation day celebration inaugurated the national seminar and guided all the participants about the CUHP foundation day celebration and the role of various ICT technologies in the current scenario. The speakers of this national seminar presented their speeches from various parts of India. Prof. Manu Sood- HPU Shimla, Dr. Sandeep Kumar Sood-NIT Kurukshetra, Dr. Rakesh Kumar-Central University Haryana, and Dr. Sahil- IIIT Una presented their session on the latest trends in ICT, Future Aspects in Artificial Intelligence, Machine Learning and Big Data Analytics, IoT Applications & Challenges, and Smart Environment and its Technological Perspective respectively. On this occasion, the Head and Dean Prof. Rakesh Kumar, School of Mathematics Computers and Information Sciences MCIS, Convener Dr. Keshav Singh Rawat, Department In charge, Computer Science and Informatics, faculty members of various departments, members of the organizing committee, and students have attended the seminar.

  
दिभागाध्यक्ष, कंप्यूटर एवं सूचना विज्ञान विभाग  
Head, Department of Computer Sciences & Informatics  
हिमाचल प्रदेश केन्द्रीय विश्वविद्यालय  
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## Central University of Himachal Pradesh

On the Occasion of CUHP Foundation Day  
Celebration

Organising Online National Seminar

on

27 Jan, 2022 at 11.30 AM ( Inaugural)

Chief Guest



**PROF. S. P. BANSAL**

Hon'ble Vice Chancellor,  
Central University of Himachal Pradesh



## TWO DAYS ONLINE NATIONAL SEMINAR

ON

Emerging Trends in Information  
& Communications Technology

ORGANIZED BY

DEPARTMENT OF COMPUTER SCIENCE & INFORMATICS



Jan 27-28, 2022



<https://meet.google.com/oyy-odif-oci>

SPEAKERS



**Prof. Manu Sood**

Himachal Pradesh University,  
Shimla



**Dr. Sandeep Kumar Sood**

National Institute of Technology  
Kurukshetra



**Dr. Rakesh Kumar**

Central University of Haryana



**Dr. Sahil**

Indian Institute of Information  
Technology Una



**Prof. Vishal Sood**  
Registrar, CUHP



**Prof. Pardeep Kumar**

Dean Student Welfare, CUHP



**Prof. A.K. Mahajan**

Co-ordinator, Foundation Day Celebration



**Prof. Rakesh Kumar**

Head & Dean SMOIS



**Dr. Keshav Singh Rawat**

Incharge CSI & Convener

### Organizing Committee:

- Sh. Manoj Dhiman (Asst. Professor)
- Sh. Ajay Kumar (Asst. Professor)
- Sh. Girish Sharma (System Analyst)
- Sh. Dheeraj Kumar (RD Scholar)

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The image shows a Google Meet interface. The top part displays a grid of 24 participants, including Ritika MCA19, Mohit 15, Pallavi MCA 16, SHIVKANSH SINGH MCA25, Dr. Keshav Rawat, Anitathakur\_07, Sahil MCA21, 15.Nirbhay Thakur, Diksha 12, yashvant 31, ARTI SHARMA, Pardeep Singh, Yogindra MCA33, Pardeep Singh 20, Nikita Sharma, Ambriah Kumar Mahajan, Vikas MCA 31, Akash Sharma04, Aanchal Pal MCA01, Priya 23, Ankush Shandil, Sakshi MCA 23, Nitish19, Ajay Kumar, vaishali ranaMCA\_30, kanika 14, Deeksha Dattal, Aman MCA05 Kumar Dhiman, 22 others, and You.

The bottom part of the image shows a presentation slide titled "Computing Eras & HCI". The slide compares "Computing" and "HCI" across several dimensions:

Computing	HCI
• KBs • Machine Centric	• Highly Restricted
• MBs • Application Centric	• Individualistic
• GBs • Enterprise Centric	• Strictly Controlled
• TBs • Service Centric	• Openly Controlled
• PBs+ (Cloud, Fog & Edge Computing)	
• EBs+ (Data Centric [JIG2009])	
• ?	
• Person Centric OR	
• Machine Centric, again ?	

At the bottom of the slide, there is a citation: [JIG2009] Jim Gray, A Transformed Scientific Method, T. Hay, S. Tanley, K. Telle (Eds.), The Fourth Paradigm: Data-Intensive Scientific Discovery, Microsoft Research, 2009. (Turing Award winner, 2009)

The Meet interface also shows a status bar at the bottom with the time 12:21 PM and the title "ONLINE NATIONAL SEMINAR ON Emer...".

  
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sandeep sood is presenting

# Future Aspects in Artificial Intelligence, IoT and Big Data Analytics

11/27/2022

Dr. Sandeep K. Sood  
Associate Professor,  
Computer Applications  
N.I.T. Kurukshetra,  
Haryana  
India  
Ph.D. (I.I.T. Roorkee)

Google Chrome  
You're presenting to everyone  
Click here to return to the video call when you're ready to stop presenting  
meet.google.com

Pardeep Singh  
Priya 23  
sandeep sood  
Shivanshu 28  
yashvant 31  
Chirag Sharma  
Aman MCA05 Kumar Dh...  
vaishali MCA29  
37 others  
You

Turn on microphone (ctrl + d)

2:48 PM | oyy-odif-oci

Dr. Rakesh Kumar is presenting

IN 60 SECONDS

Dr. Rakesh Kumar  
Pardeep Singh  
Partiksha 21  
Sakshi MCA 23  
Mohit 15  
Sourav Jaryal  
Akash Sharma04  
Nikita Sharma  
32 others  
You

11:03 AM | oyy-odif-oci

  
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meet.google.com/oyy-odif-oci

Sahil IITU is presenting

## Smart Environment

### Smartness

**From a sales point of view**  
 \*Smartness depends on the level of automation capabilities.  
 \*The more the automation, the more smartness.

**From technology point of view**  
 \*Degree of doing tasks that traditionally required the human intervention.

### Definition

**A physical space that relies on technology**  
 \*It is essentially a space that performs tasks.  
 \*It increases the level of automation of what is occurring in physical surroundings.

### Primary Objective

**Improvement of quality of human life**  
 \*The better the quality of human life, the better the smartness.

### Origination of Term

**Originated from Ubiquitous Computing**  
 \*Smart has evolved from ubiquitous computing, which makes use of ubiquitous elements for interaction with each other.  
 \*It makes people lives more comfortable and efficient.  
 \*Facilitate communication and improve performance and quality of services.

### Ingredients

**It is common in a smart environment**  
 \*It is using IT devices and services.  
 \*Also includes software platforms and services, wireless networks, cloud, big data processing, cloud computing, and a huge range of technologies.

1/28/2022 Smart Environments & its Tech. Perspective 3

2:08 PM | oyy-odif-oci

People

Search for people

In call

- Dheeraj Kumar (You)
- 15.Nirbhay Thakur
- Aanchal Pal MCA01
- Abhay Thakur
- Abhi Choudhary MCA 03
- Abhishek MCA02
- Aman MCA05 Kumar Dhi...
- Anitathakur\_07
- Anjali 05

Dr. Keshav Rawat, Sahil IITU, Pardeep Singh, Ruchi MCA20, Sakshi MCA 23, Aman MCA05 K..., Diksha 12, RIJU BHATIA, 32 others, You

  
 दिभागाध्यक्ष, कंप्यूटर एवं सूचना विज्ञान विभाग  
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