**DEPARTMENT OF COMPUTER SCIENCE AND APPLICATION**

ATAL BIHARI VAJPAYEE VISHWAVIDYALAYA, BILASPUR (C.G.)

A REPORT OF

# EXPERT LECTURE

&

# ONE WEEK ONLINE STUDENT DEVELOPMENT PROGRAM (SDP)

ON THE OCCASION OF

# CONVOCATION WEEK CELEBRATION

FROM

29 AUGUST- 6 SEPTEMBER,

2024

# EVENT DETAILS

The Department of Computer Science and Application at Atal Bihari Vajpayee Vishwavidyalaya, Bilaspur, proudly participated in the university's 5th Convocation Week, which was observed from August 29 to September 6, 2024. This week-long celebration was held in honor of the university's convocation day on August 31, 2024. Following the directive of the Hon'ble Vice Chancellor, Prof. A.D.N. Bajpai, all departments were encouraged to extend the celebrations beyond the convocation day, leading to a series of engaging activities organized by the Department of Computer Science.

The Convocation Week activities commenced with a formal inauguration led by the Hon'ble Vice Chancellor, Prof. A.D.N. Bajpai. Dr. H.S. Hota, the Head of the Department of Computer Science and Application, welcomed Prof. Bajpai and introduced the week's schedule of events. Dr. Hota provided an overview of the department's planned activities, setting a positive tone for the week's proceedings.

The first major event took place on August 29, 2024, starting at 12:00 PM. Prof. Srinivasa K.G., Professor, Dean (Academics), and Head of the Department of Data Science and Artificial Intelligence (DSAI) at IIIT Raipur, delivered an expert lecture. His talk covered recent advancements and future directions in Data Science and Artificial Intelligence, offering valuable insights into these rapidly evolving fields.

The second activity, also on August 29, 2024, was an expert lecture by Prof. Bhuban Chandra Mahapatra, which began at 2:00 PM. Prof. Mahapatra addressed the topic "Implementation of NEP-2020 in Higher Education Institutions: Opportunities and Challenges." His lecture provided an in-depth examination of the National Education Policy 2020, discussing its potential impacts on higher education and the challenges that institutions may face in its implementation.

# EVENT DETAILS

The third activity was a one-week online student development programme, conducted from September 2 to 6, 2024. This programme focused on Advanced Excel with Data Visualization, designed to enhance students' skills in data analysis and visualization. The online format facilitated broad participation, allowing students to gain hands-on experience with advanced Excel techniques and data visualization tools.

Throughout the week, Hon'ble Vice Chancellor Prof. A.D.N. Bajpai actively engaged with students and faculty, offering congratulations for the successful organization of Convocation Week activities. He emphasized the critical role these programs play in fostering academic and professional growth. During his interactions, Prof. Bajpai highlighted the importance of expanding linguistic and research efforts, specifically encouraging the study and preservation of native languages, such as Chhattisgarhi. He urged students and faculty to contribute to the advancement of these languages through research and engagement. Prof. Bajpai’s focus on language development reflects a commitment to enhancing cultural and academic diversity, ensuring that native languages are preserved and promoted alongside academic progress. His support for these initiatives underscores the university’s dedication to both scholarly excellence and cultural enrichment.

The inaugural session was also attended by Mr. Jeetendra Kumar, Dr. Rashmi Gupta, Dr. Shriya Sahu, and other esteemed guest faculty members, alongside the students of the department.

In summary, the Convocation Week organized by the Department of Computer Science and Application was a significant success, marked by a series of educational and professional development activities. The week not only celebrated the university’s milestone but also highlighted the department's commitment to enhancing academic and practical knowledge among students.

Department of Computer Science & Application
Atal Bihari Vajpayee University, Bilaspur (C.G.)
ACTIVITY 2
Date : 29 August, 2024
Time : 02:00 PM
Expert Lecture
on
Bhuban Chandra Mahapatra
Expert
CONVOCATION WEEK PROGRAM
ONE WEEK
ADVANCE EXCEL WITH DATA VISUALIZATION
EICT Academy, IIT
IEEE Chapter
Convenor
Coordinator
DR. H. S. HOTA
Register Now!
More Information :
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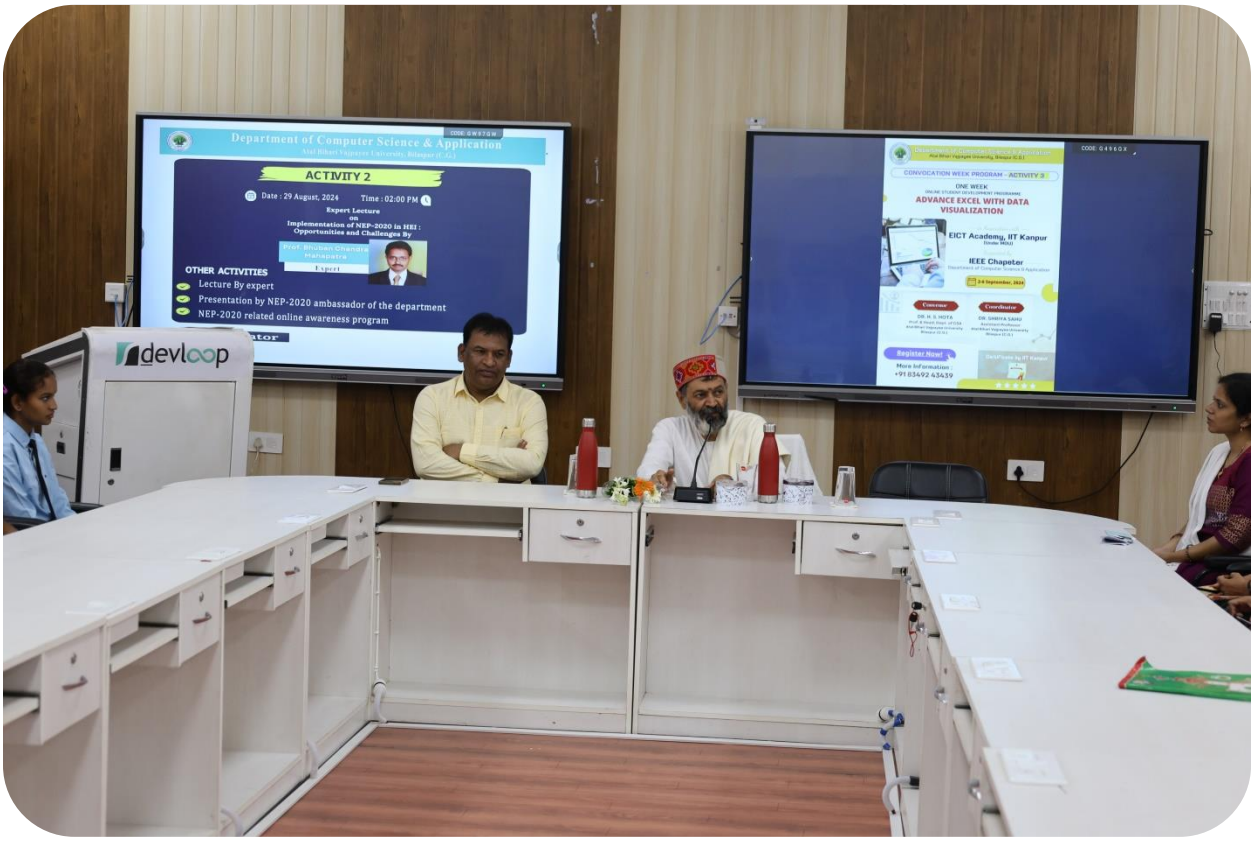
devloop
CONVOCATION WEEK PROGRAM
ONE WEEK
ADVANCE EXCEL WITH DATA VISUALIZATION
Coordinator

Convocation Week Celebration
ACTIVITY 2
OTHER ACTIVITIES
Lecture By expert
Presentation by NEP-2020 ambassador of the department
NEP-2020 related online awareness program
IoT Smart Health Kit
devloop


Department of Computer Science & Application
ACTIVITY 2
Date : 29 August, 2024
Time : 02:00 PM
Expert Lecture
on
Implementation of NEP-2020 in HEI :
Opportunities and Challenges By
Prof. Bhuban Chandra Manapatra
Expert
OTHER ACTIVITIES
Lecture By expert
Presentation by NEP-2020 ambassador of the department
NEP-2020 related online awareness program
devloop
CONVOCATION WEEK PROGRAM - ACTIVITY 3
ONE WEEK
ADVANCE EXCEL WITH DATA VISUALIZATION
EICT Academy, IIT Kanpur
IEEE Chapoter
Convenor
Coordinator
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Convocation Week Celebration

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ADVANCE EXCEL WITH DATA VISUALIZATION
IEEE Chapter
Department of Computer Science & Application
ACTIVITY 2
Date : 29 August, 2024
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Expert Lecture
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OTHER ACTIVITIES
Lecture By expert
Presentation by NEP-2020 ambassador of the department
NEP-2020 related online awareness program
Coordinator

GPS Map Camera
Bilaspur, Chhattisgarh, India
ABVV Main Rd, Koni, Chhattisgarh 495009, India
Lat 22.138633°
Long 82.12767°
29/08/24 12:41 PM GMT +05:30
Google

GPS Map Camera
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ABVV Main Rd, Koni, Chhattisgarh 495009, India
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Long 82.127663°
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Google

## Department of Computer Science & Application
Atal Bihari Vajpayee University, Bilaspur (C.G.)

Join our

# Convocation Week Celebration

on

**29 August, 2024**

**Time 12:00 PM**

## ACTIVITY 1

## Expert Lecture By

## Venue

CoE Lab, second floor, Dept. CSA, ABVV Bilaspur

## Coordinator

Dr. Rashmi Gupta
Mr. Jeetendra Kumar

Patron

**Prof. A.D.N. Bajpai**

Hon'ble Vice-Chancellor
Atal Bihari Vajpayee University
Bilaspur (C.G.)

Expert

**Prof. Srinivasa K. G.**

Professor, Dean(Academics), & HOD DSAI
IIIT Raipur (C.G.)

Convenor

**Dr. H. S. Hota**

Prof. & Head, Dept. of CSA
Atal Bihari Vajpayee University
Bilaspur (C.G.)

# ACTIVITY DETAILS

As the inaugural event of Convocation Week, the Department organized an expert lecture on August 29, 2024, commencing at 12:00 PM. This engaging session featured Prof. Srinivasa K.G., who holds the positions of Professor, Dean (Academics), and Head of the DSAI Department at IIIT Raipur.

The event was officially opened with a warm welcome from Dr. H.S. Hota, Head of the Department of Computer Science and Application. Dr. Hota expressed his gratitude for Prof. Srinivasa's participation and highlighted the significance of his visit. Following this, Dr. Rashmi Gupta, the coordinator of the event, provided an introduction to Prof. Srinivasa, outlining his notable achievements and contributions to the fields of Data Science and Artificial Intelligence.

Prof. Srinivasa's lecture provided a comprehensive overview of recent advancements and future directions in Data Science and Artificial Intelligence. His presentation covered a wide array of topics, including colony optimization, which addresses complex optimization problems by mimicking biological processes. He also discussed the relevance of competitive programming and hacker ranks, emphasizing how these platforms foster problem-solving skills and prepare individuals for the tech industry.

In addition, Prof. Srinivasa highlighted the importance of skill development, focusing on the processes of upskilling and reskilling to adapt to the fast-evolving technological landscape. His discussion also touched upon innovative applications such as robocar, illustrating the practical uses of AI in autonomous vehicles.

The session was attended by all students of the department, who were actively engaged and benefited greatly from Prof. Srinivasa's insights. The expert lecture not only enriched their understanding of current and emerging trends in Data Science and Artificial Intelligence but also inspired them to pursue further exploration and research in these dynamic fields.

CONVOCATION WEEK PROGRAM - ACTIVITY 3
ONE WEEK
ONLINE STUDENT DEVELOPMENT PROGRAMME
ADVANCE EXCEL WITH DATA VISUALIZATION
EICT Academy, IIT Kanpur
(Under MOU)
IEEE Chapeter
Department of Computer Science & Application
Convenor
DR. H. S. HOTA
Coordinator
DR. SHRIYA SAHU
Register Now!
More Information :
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CONVOCATION WEEK PROGRAM - ACTIVITY 3
ONE WEEK
ONLINE STUDENT DEVELOPMENT PROGRAMME
ADVANCE EXCEL WITH DATA VISUALIZATION
EICT Academy, IIT Kanpur
(Under MOU)
IEEE Chapeter
Department of Computer Science & Application
Register Now!

Sensor Lab
Department of Computer Science & Application
Atal Bihari Vajpayee University, Bilaspur (C.G.)
ACTIVITY 2
Date : 29 August, 2024
Time : 02:00 PM
Expert Lecture
on
Implementation of NEP-2020 in HEI :
Opportunities and Challenges By
Prof. Bhuban Chandra Mahapatra
Expert
OTHER ACTIVITIES
Lecture By expert
Presentation by NEP-2020 ambassador of the department
NEP-2020 related online awareness program
Coordinator
Dr. Shriya Sahu
devloop

Department of Computer Science & Application
Atal Bihari Vajpayee University, Bilaspur (C.G.)
Join our
Convocation Week
Celebration
on
29 August, 2024
Time 12:00 PM
ACTIVITY 1
Expert lecture By
Venue
Patron
Prof. A. D. N. Bajpai
Expert
Convenor
devloop

Department of Computer Science & Application
ACTIVITY 2
Date : 29 August, 2024
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Google

GPS Map Camera
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ABVV Main Rd, Koni, Chhattisgarh 495009, India
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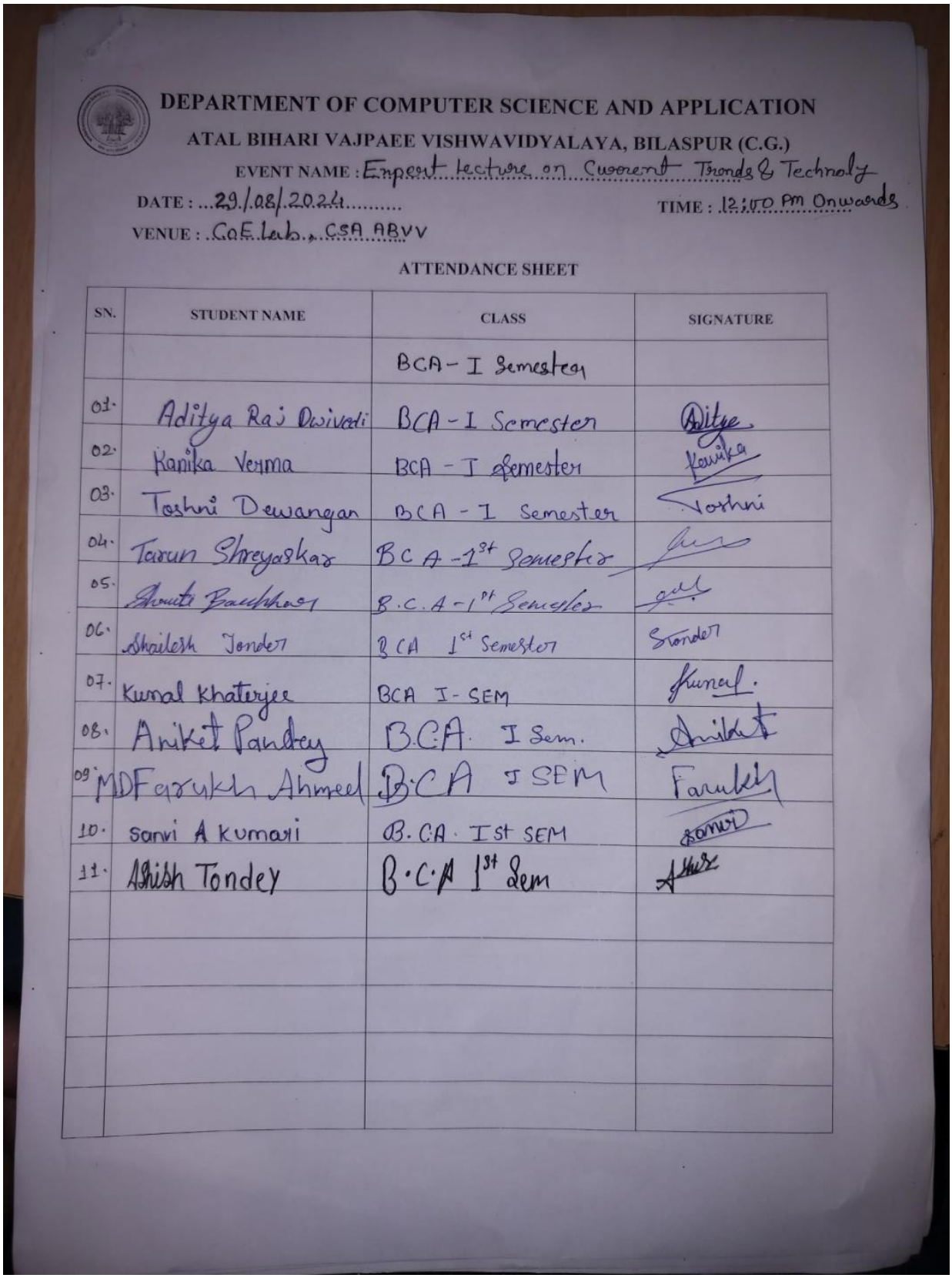
Google

# ATTENDANCE SHEET



**DEPARTMENT OF COMPUTER SCIENCE AND APPLICATION**

**ATAL BIHARI VAJPAEE VISHWAVIDYALAYA, BILASPUR (C.G.)**

EVENT NAME : Expert lecture on Current Trends & Technoly

DATE : 29/08/2024 TIME : 12:00 PM Onwards

VENUE : CoE Lab., CSA ABVV

**ATTENDANCE SHEET**

| SN. | STUDENT NAME | CLASS | SIGNATURE |
|---|---|---|---|
| | | BCA - I Semester | |
| 01. | Aditya Raj Dwivedi | BCA - I Semester | Aditya |
| 02. | Kanika Verma | BCA - I Semester | Kanika |
| 03. | Toshni Dewangan | BCA - I Semester | Toshni |
| 04. | Tarun Shreyaskar | BCA - 1st Semester | [illegible] |
| 05. | Shruti Bachhar | B.C.A - 1st Semester | [illegible] |
| 06. | Shailesh Tonder | BCA 1st Semester | Stonder |
| 07. | Kunal Khaterjee | BCA I - SEM | Kunal. |
| 08. | Aniket Pandey | B.C.A. I Sem. | Aniket |
| 09. | MD Farukh Ahmed | B.C.A I SEM | Farukh |
| 10. | Sanvi A Kumari | B.C.A. Ist SEM | Sanvi |
| 11. | Ashish Tondey | B.C.A 1st Sem | Ashish |
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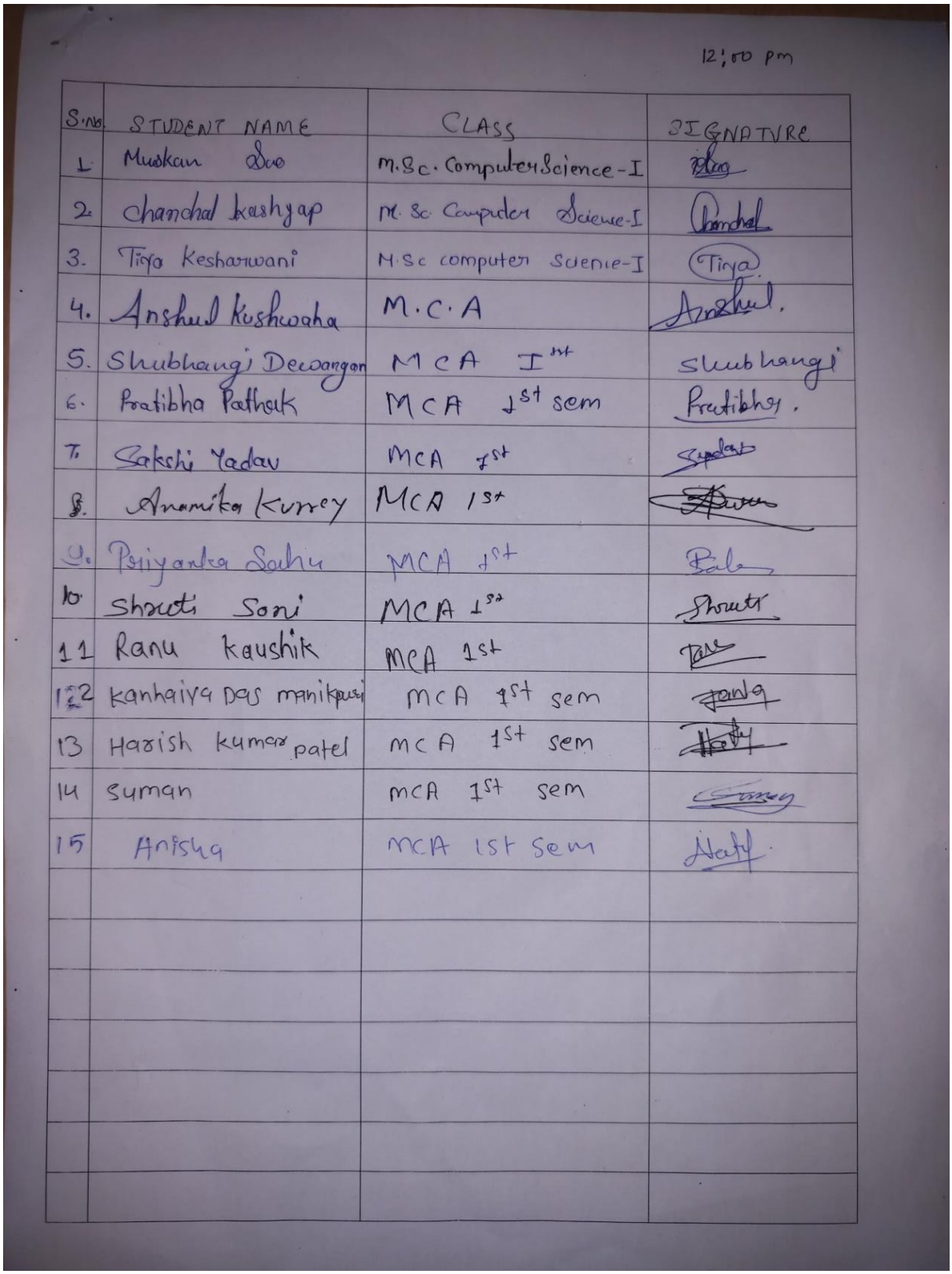
# ATTENDANCE SHEET



12:00 pm

| S.No. | STUDENT NAME | CLASS | SIGNATURE |
|---|---|---|---|
| 1. | Muskan Soo | M.Sc. Computer Science-I | |
| 2. | Chanchal kashyap | M. Sc Computer Science-I | Chanchal |
| 3. | Tiya Kesharwani | M.Sc computer Science-I | Tiya |
| 4. | Anshul Kushwaha | M.C.A | Anshul. |
| 5. | Shubhangi Devangan | MCA I st | Shubhangi |
| 6. | Pratibha Pathak | MCA 1st sem | Pratibha. |
| 7. | Sakshi Yadav | MCA 1st | |
| 8. | Anamika Kurrey | MCA 1st | |
| 9. | Priyanka Sahu | MCA 1st | Priyanka |
| 10 | Shruti Soni | MCA 1st | Shruti |
| 11 | Ranu kaushik | MCA 1st | |
| 12 | kanhaiya Das manikpuri | MCA 1st sem | |
| 13 | Harish kumar patel | MCA 1st sem | |
| 14 | suman | MCA 1st sem | |
| 15 | Anisha | MCA 1st Sem | Anisha |
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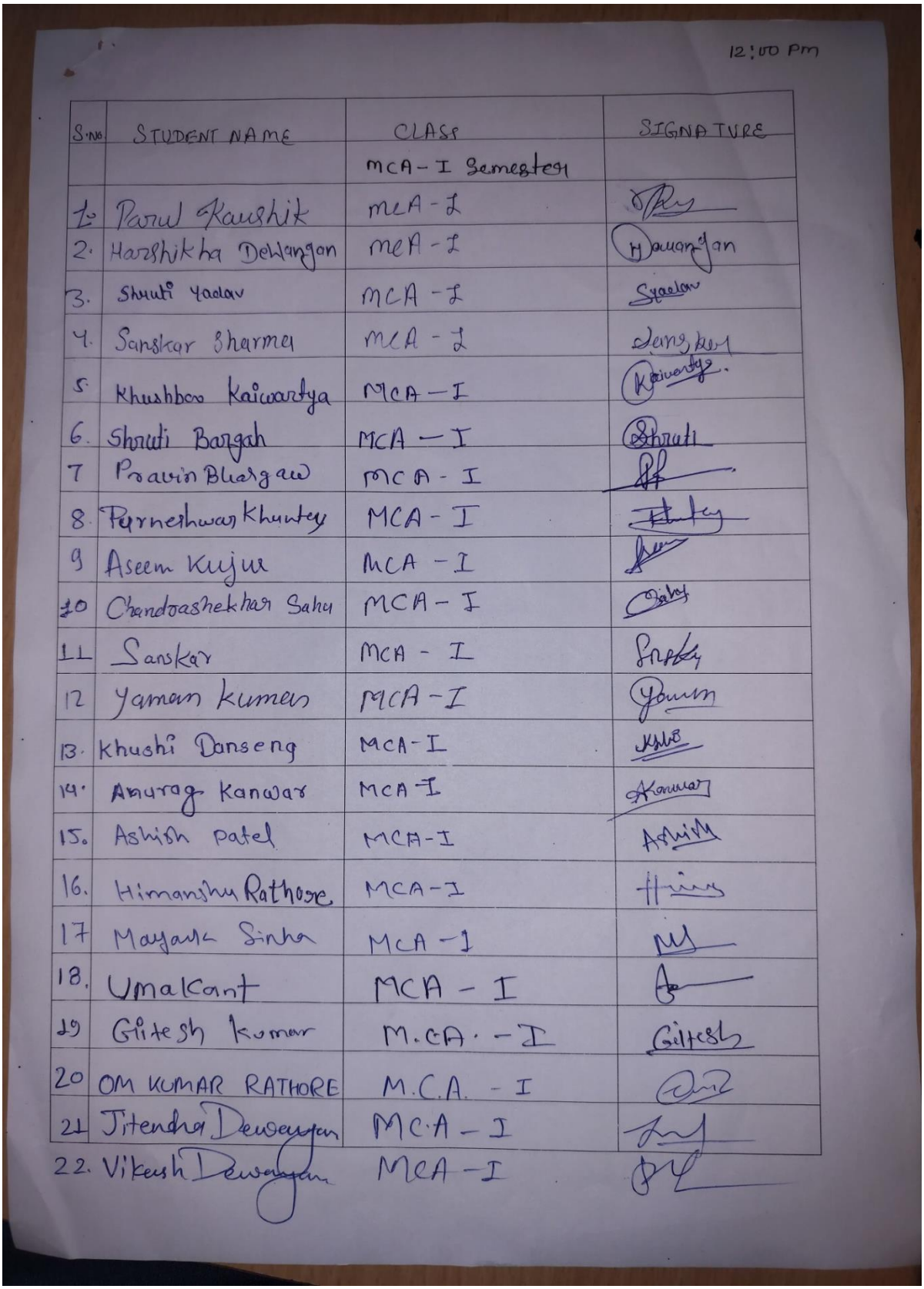
# ATTENDANCE SHEET

12:00 Pm

| S.No. | STUDENT NAME | CLASS | SIGNATURE |
|---|---|---|---|
| | | B.Sc. (Hons) - I Semester | |
| 1 | Anjali Diwakar | BSc (Hons) CS | Anjali |
| 2 | Yamini chandra | BSc (Hons) CS | Chandra |
| 3 | Mousam Patel | BSC (Hons) CS | Mousam |
| 4 | Soumya Dewangan | BSc. (Hons) CS. | Soumya |
| 5 | Venktesh Yadav | BSC (Hons) CS - I | Yadav |
| 6 | Manish ku sahu | BSc (Hons) CS - I | |
| 7. | Priyanshu Soni | BSC (Hons) CS - I | Soni |
| 8. | Khushi Rani | BSC (Hons) CS - I | |
| 9. | Raghavi Thakur | BSC (Hons) CS - I | Raghavi |
| 10 | Rakesh Rastre | BSC (Hons) CS - I | Rakesh |
| 11 | Rahul Sidar | BSC (Hons) CS - I | Sidar |
| 12 | Shalini Sahu | B.SC (Hons) CS - I | Shalini |
| 13 | Ayush Sharma | B.S.C (Hons) CS - 1st | |
| 14 | Shreya Chaubey. | BSC (Hons) CS - I st | |
| 15. | Aditya Kumar | BSC (Hons) CS - I st | Aditya |
| 16. | Kahan Kumar | BSC (Hons) CS - I st | Kumar |
| 17. | Smriti Pandey | BSC (Hons) CS - I st | Smriti Pandey |
| 18. | Atulya soni | BSC (Hons) CS - I st | Atulya |
| 19. | Jaya Shukla | BSC (Hons) CS - I | Shukla |
| 20. | Priya patel | BSC (Hons) CS I | Priya patel |
| | | | |

# ATTENDANCE SHEET



12:00 PM

| S.No | STUDENT NAME | CLASS | SIGNATURE |
|---|---|---|---|
| | | MCA - I Semester | |
| 1. | Parul Kaushik | MCA - I | |
| 2. | Harshikha Dewangan | MCA - I | |
| 3. | Shruti Yadav | MCA - I | |
| 4. | Sanskar Sharma | MCA - I | |
| 5. | Khushboo Kaiwartya | MCA - I | |
| 6. | Shruti Bargah | MCA - I | |
| 7 | Pravin Bhargav | MCA - I | |
| 8. | Parmeshwar Khunte | MCA - I | |
| 9 | Aseem Kujur | MCA - I | |
| 10 | Chandrashekhar Sahu | MCA - I | |
| 11 | Sanskar | MCA - I | |
| 12 | Yaman kumar | MCA - I | |
| 13. | Khushi Danseng | MCA - I | |
| 14. | Anurag Kanwar | MCA - I | |
| 15. | Ashish patel | MCA - I | |
| 16. | Himanshu Rathore | MCA - I | |
| 17 | Mayank Sinha | MCA - I | |
| 18. | Umakant | MCA - I | |
| 19 | Gitesh kumar | M.CA. - I | |
| 20 | OM KUMAR RATHORE | M.C.A. - I | |
| 21 | Jitendra Dewangan | MCA - I | |
| 22. | Vikash Dewangan | MCA - I | |

**Department of Computer Science & Application**
Atal Bihari Vajpayee University, Bilaspur (C.G.)

# ACTIVITY 2

Date : 29 August, 2024 Time : 02:00 PM

**Expert Lecture**
**on**
**Implementation of NEP-2020 in HEI : Opportunities and Challenges By**

**Prof. Bhuban Chandra Mahapatra**

**Expert**

## OTHER ACTIVITIES

- Lecture By expert
- Presentation by NEP-2020 ambassador of the department
- NEP-2020 related online awareness program

## Coordinator

Dr. Shriya Sahu

# ACTIVITY DETAILS

On August 29, 2024, as the inaugural activity of the Convocation Week Celebration, the Department organized a highly informative expert lecture scheduled to start at 02:00 PM. This event featured Prof. Bhuban Chandra Mahapatra, an esteemed Adjunct Professor and Research Director from the Department of Research. Prof. Mahapatra delivered a compelling lecture titled "Implementation of NEP-2020 in Higher Education Institutions: Opportunities and Challenges," addressing the transformative National Education Policy (NEP) 2020 and its implications for higher education.

The session began with a warm welcome from Dr. H.S. Hota, the Head of the Department of Computer Science and Application. Dr. Hota expressed his gratitude to Prof. Mahapatra for his participation and emphasized the significance of the lecture in the context of the ongoing educational reforms introduced by NEP-2020. This introduction set a positive tone for the event, highlighting the importance of the discussion in shaping the future of academic practices.

Following the welcome address, Dr. Shriya Sahu, the coordinator of the event, provided a detailed introduction to Prof. Mahapatra. She outlined his extensive background and expertise in education research, which added credibility and depth to the session. Dr. Sahu's introduction not only showcased Prof. Mahapatra’s qualifications but also prepared the audience for the rich content of the lecture.

Prof. Mahapatra’s lecture was meticulously structured to cover several crucial aspects of NEP-2020. He began with an examination of how the policy proposes to revise and enhance current syllabi and curricula, aiming to make them more relevant and robust. He then introduced the NEP-2020, providing a detailed overview of its key components and objectives. The structure of the policy was explored, including the strategic changes it proposes for higher education institutions.

# ACTIVITY DETAILS

One of the focal points of the lecture was the potential impact of NEP-2020 on the academic landscape. Prof. Mahapatra discussed how the policy could affect institutional practices, educational standards, and student outcomes. He emphasized the opportunities that NEP-2020 presents for improving educational quality and accessibility. At the same time, he addressed the challenges that institutions may face in implementing the policy effectively, providing a balanced view of both its promises and potential hurdles.

At the end of the session, a questionnaire was administered via Google Forms to assess the students' understanding of NEP-2020. This digital format was chosen for its convenience and ease of analysis. The questionnaire aimed to evaluate the extent of knowledge the students had gained from Prof. Mahapatra's lecture on NEP-2020.

Students responded to the questionnaire with notable enthusiasm, reflecting their active engagement with the topic. The questions covered various aspects of the National Education Policy, including its key components, structural changes, potential impacts, and the opportunities and challenges it presents. The use of Google Forms allowed for a seamless collection of responses, providing an efficient means to gauge students' comprehension and feedback.

The interactive nature of the questionnaire not only reinforced the information presented during the lecture but also offered valuable insights into students’ perceptions and understanding of NEP-2020. This exercise provided an opportunity for students to reflect on and apply the knowledge they had acquired, while also enabling the organizers to assess the effectiveness of the session and identify areas for future improvement.

Overall, the expert lecture was a significant contribution to the Convocation Week Celebration. It provided a thorough understanding of NEP-2020 and fostered a deeper awareness among the academic community about the ongoing educational reforms. The event was well-received and highlighted the Department’s commitment to staying at the forefront of educational advancements.

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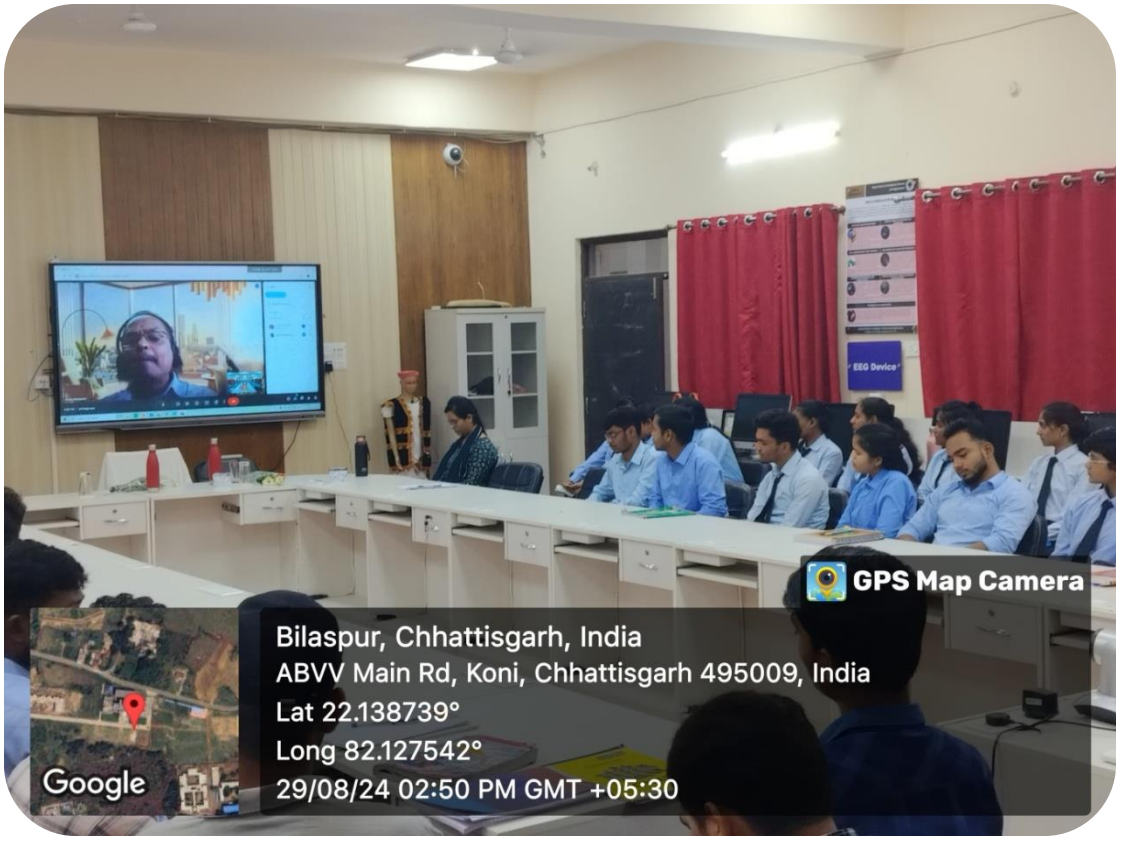
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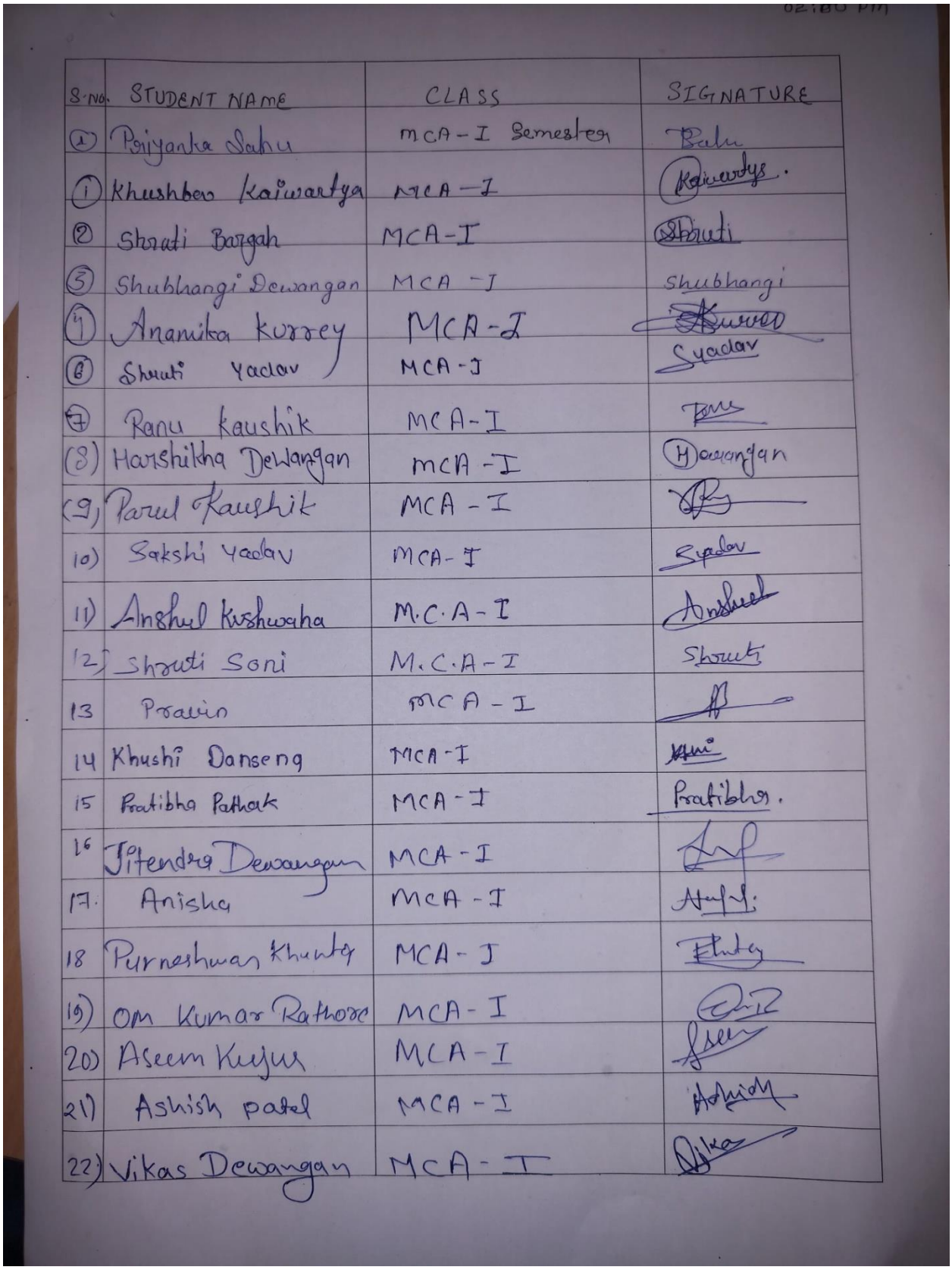
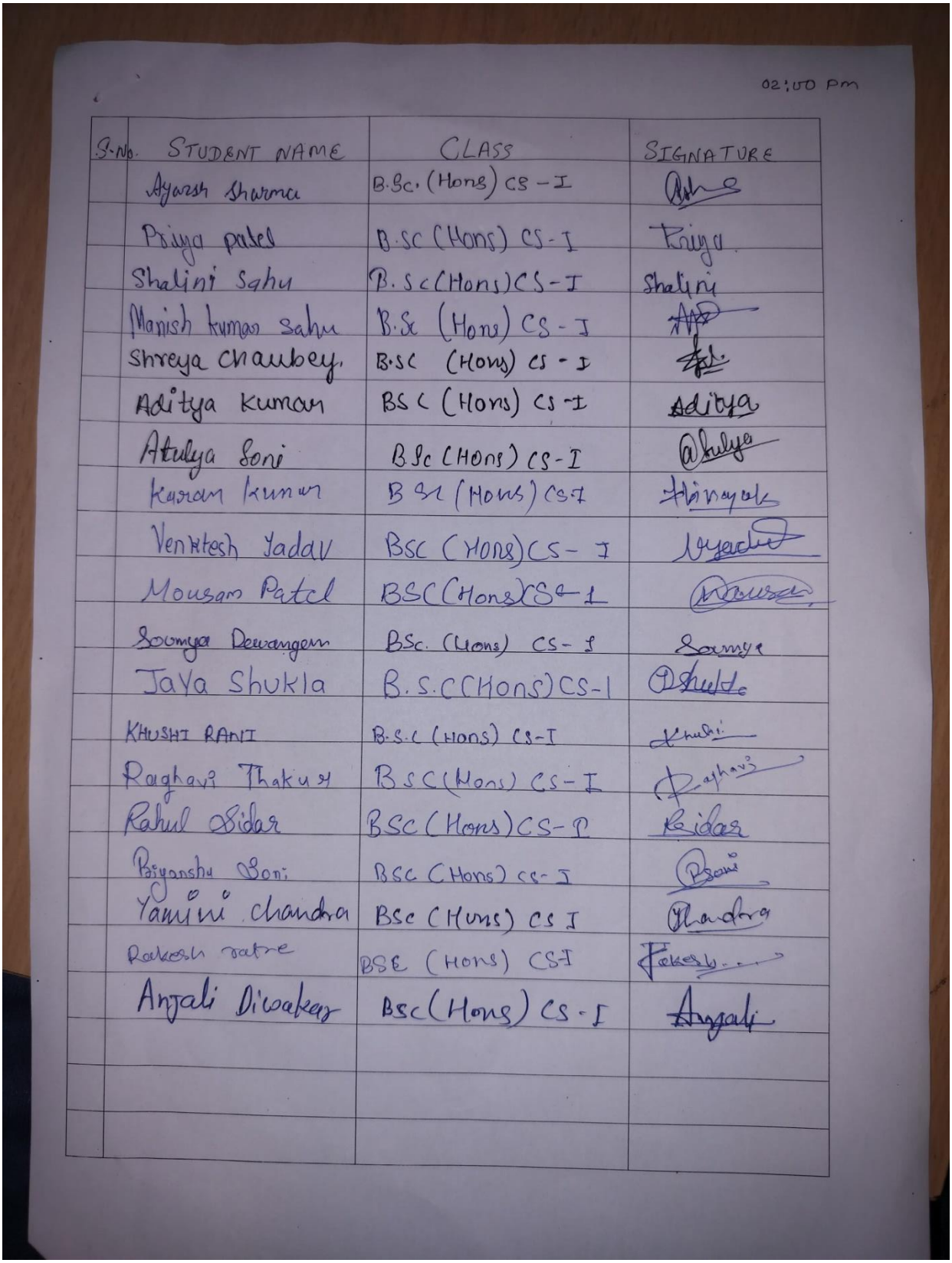


| S.No. | STUDENT NAME | CLASS | SIGNATURE |
|---|---|---|---|
| 1 | Priyanka Sahu | MCA-I Semester | Sahu |
| 1 | Khushboo Kaiwartya | MCA-I | Kaiwartya. |
| 2 | Shruti Bargah | MCA-I | Shruti |
| 5 | Shubhangi Dewangan | MCA-I | Shubhangi |
| 4 | Anamika Kurrey | MCA-I | Kurrey |
| 6 | Shruti Yadav | MCA-I | Syadav |
| 7 | Ranu Kaushik | MCA-I | Ranu |
| 8 | Harshitha Dewangan | MCA-I | Dewangan |
| 9 | Parul Kaushik | MCA-I | Parul |
| 10 | Sakshi Yadav | MCA-I | Syadav |
| 11 | Anshul Kushwaha | M.C.A-I | Anshul |
| 12 | Shruti Soni | M.C.A-I | Shruti |
| 13 | Pravin | MCA-I | |
| 14 | Khushi Dansena | MCA-I | Khushi |
| 15 | Pratibha Pathak | MCA-I | Pratibha. |
| 16 | Jitendra Dewangan | MCA-I | |
| 17 | Anisha | MCA-I | Anisha |
| 18 | Purneshwar Khunte | MCA-I | Khunte |
| 19 | Om Kumar Rathore | MCA-I | |
| 20 | Aseem Kujur | MCA-I | Aseem |
| 21 | Ashish patel | MCA-I | Ashish |
| 22 | Vikas Dewangan | MCA-I | Vikas |

# ATTENDANCE SHEET



02:00 PM

| S.No. | STUDENT NAME | CLASS | SIGNATURE |
|---|---|---|---|
| | Ayaesh Sharma | B.Sc. (Hons) CS - I | |
| | Priya patel | B.SC (Hons) CS-I | Priya |
| | Shalini Sahu | B.Sc(Hons)CS-I | Shalini |
| | Manish kumar sahu | B.Sc (Hons) CS - I | |
| | Shreya Chaubey. | B.SC (Hons) CS - I | |
| | Aditya Kumar | BSC (Hons) CS-I | Aditya |
| | Atulya Soni | B.Sc (Hons) CS-I | @Atulya |
| | Karan kumar | B.Sc (Hons) CS-I | Hinayak |
| | Venkatesh Yadav | BSC (Hons) CS - I | |
| | Mousam Patel | BSC (Hons) CS-I | |
| | Soumya Dewangam | BSc. (Hons) CS - I | Soumya |
| | Jaya Shukla | B.S.C (Hons) CS-I | |
| | KHUSHI RANI | B.S.C (Hons) CS-I | |
| | Raghavi Thakur | BSC (Hons) CS-I | |
| | Rahul Sidar | BSC (Hons) CS-I | Sidar |
| | Priyanshu Soni | BSC (Hons) CS-I | |
| | Yamini chandra | BSc (Hons) CS I | |
| | Rakesh ratre | BSE (Hons) CS-I | |
| | Anjali Diwakar | BSc (Hons) CS-I | Anjali |

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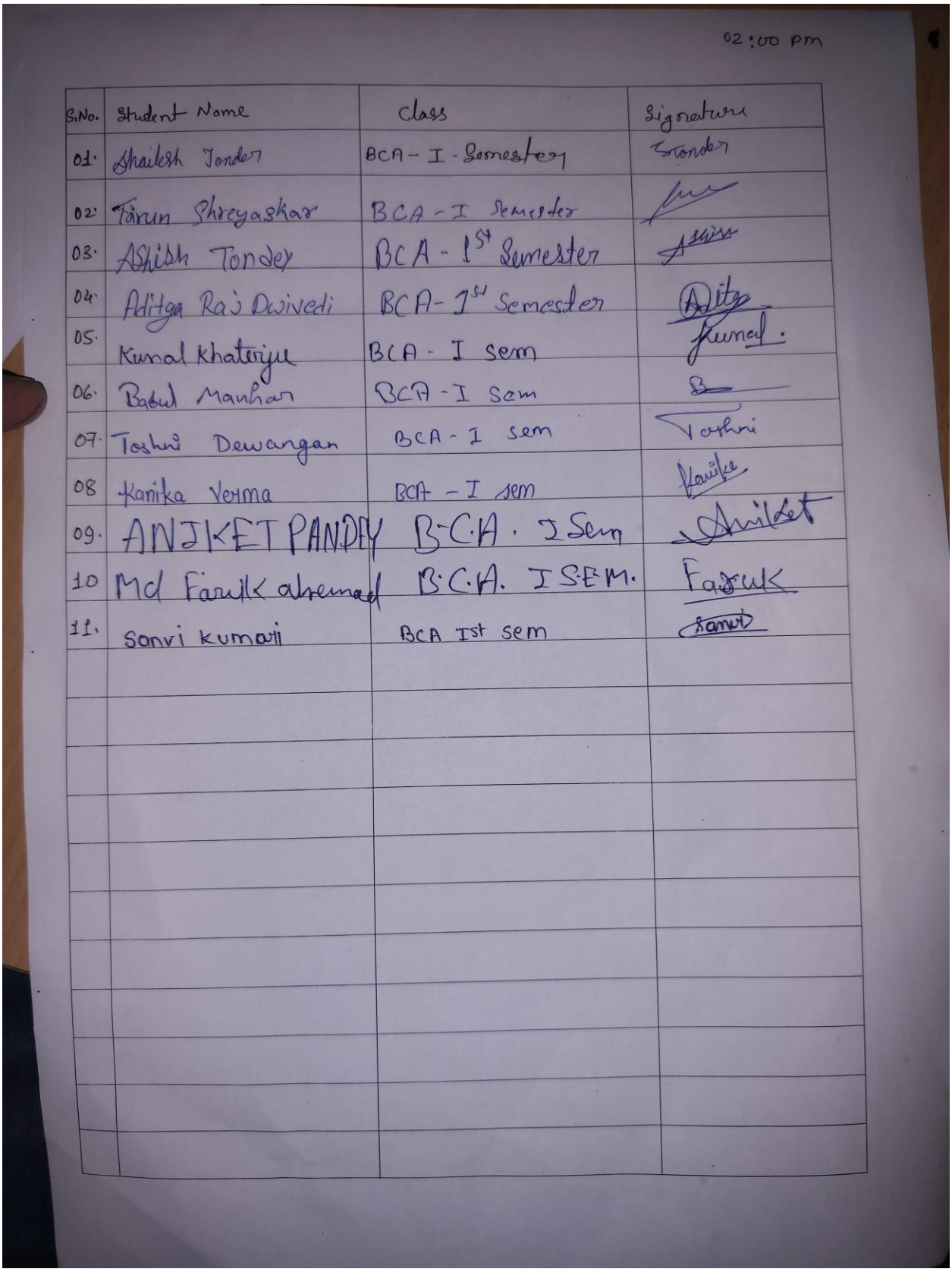
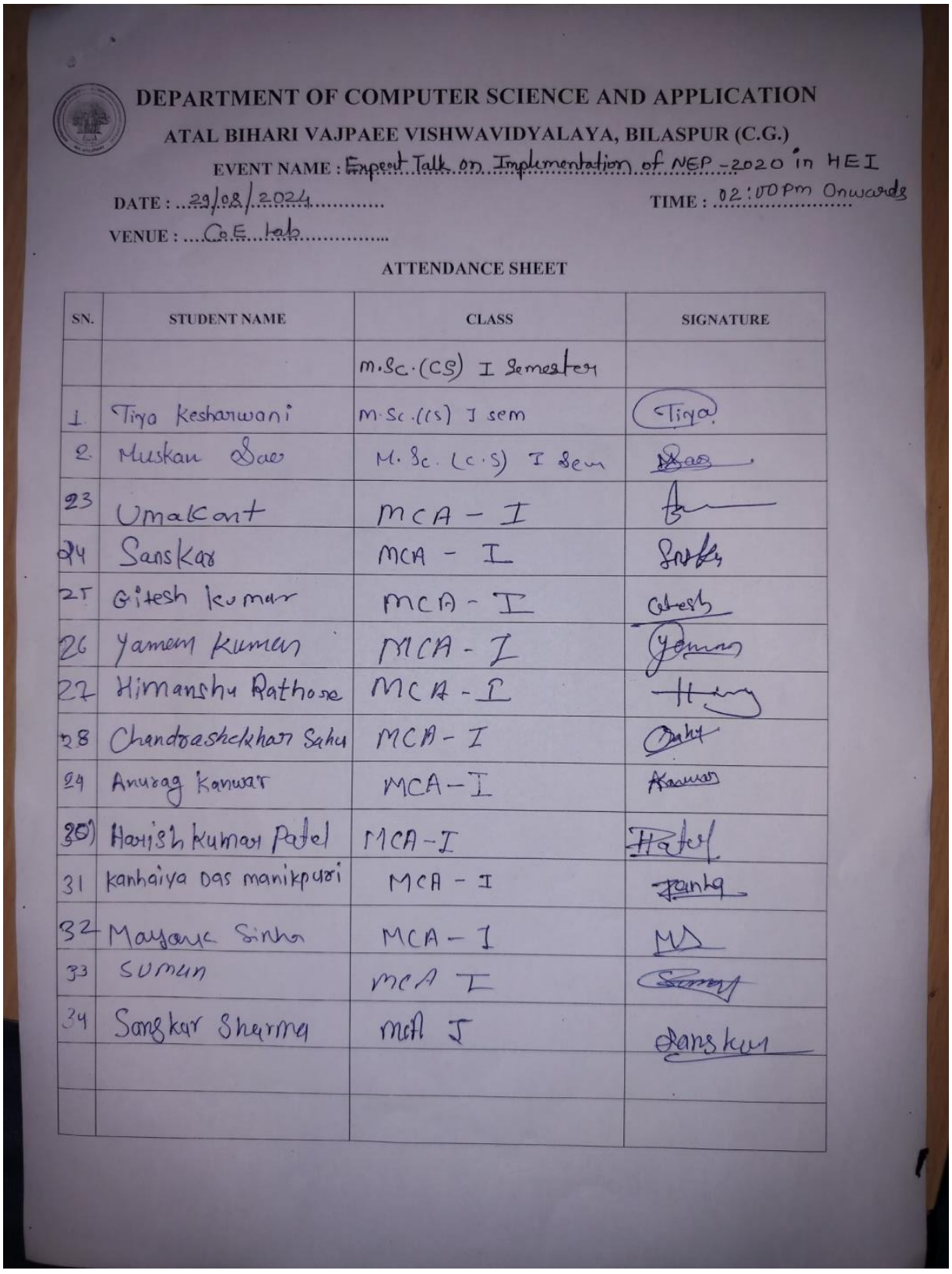


02:00 PM

| S.No. | Student Name | Class | Signature |
|---|---|---|---|
| 01. | Shailesh Tonder | BCA - I - Semester | Tonder |
| 02. | Tarun Shreyaskar | BCA - I Semester | |
| 03. | Ashish Tondey | BCA - 1st Semester | |
| 04. | Aditya Raj Dwivedi | BCA - 1st Semester | Aditya |
| 05. | Kunal Khatriya | BCA - I sem | Kunal. |
| 06. | Babul Manhar | BCA - I Sem | |
| 07. | Tashvi Dewangan | BCA - I sem | Tashvi |
| 08 | Kanika Verma | BCA - I sem | Kanika |
| 09. | ANJKET PANDEY | B.C.A. I Sem | Aniket |
| 10 | Md Faruk ahmad | B.C.A. I SEM. | Faruk |
| 11. | Sanvi kumari | BCA Ist sem | Sanvi |

# ATTENDANCE SHEET



**DEPARTMENT OF COMPUTER SCIENCE AND APPLICATION**

**ATAL BIHARI VAJPAEE VISHWAVIDYALAYA, BILASPUR (C.G.)**

EVENT NAME : Expert Talk on Implementation of NEP-2020 in HEI

DATE : 29/08/2024 TIME : 02:00 PM Onwards

VENUE : CoE lab

**ATTENDANCE SHEET**

| SN. | STUDENT NAME | CLASS | SIGNATURE |
|---|---|---|---|
| | | M.Sc.(CS) I Semester | |
| 1 | Tiya Kesharwani | M.Sc.(CS) I sem | Tiya |
| 2 | Muskan Das | M.Sc.(C.S) I Sem | |
| 23 | Umakant | MCA - I | |
| 24 | Sanskar | MCA - I | |
| 25 | Gitesh kumar | MCA - I | |
| 26 | Yamem Kumar | MCA - I | |
| 27 | Himanshu Rathore | MCA - I | |
| 28 | Chandrashekhar Sahu | MCA - I | |
| 29 | Anurag Kanwar | MCA - I | |
| 30 | Harish kumar Patel | MCA - I | |
| 31 | kanhaiya das manikpuri | MCA - I | |
| 32 | Mayank Sinha | MCA - I | |
| 33 | Suman | MCA I | |
| 34 | Sangkar Sharma | mcA I | |
| | | | |
| | | | |

**Department of Computer Science & Application**
Atal Bihari Vajpayee University, Bilaspur (C.G.)

## CONVOCATION WEEK PROGRAM - ACTIVITY 3

### ONE WEEK
ONLINE STUDENT DEVELOPMENT PROGRAMME

# ADVANCE EXCEL WITH DATA VISUALIZATION

*in Association with*

**EICT Academy, IIT Kanpur**
**(Under MOU)**

*Supported by*

**IEEE Chapeter**
Department of Computer Science & Application

**2-6 September, 2024**

**Convenor**

**DR. H. S. HOTA**
Prof. & Head, Dept. of CSA
Atal Bihari Vajpayee University
Bilaspur (C.G.)

**Coordinator**

**DR. SHRIYA SAHU**
Assistant Professor
Atal Bihari Vajpayee University
Bilaspur (C.G.)

**Register Now!**

**More Information :**
**+91 83492 43439**

**Certificate by IIT Kanpur**

# ACTIVITY DETAILS

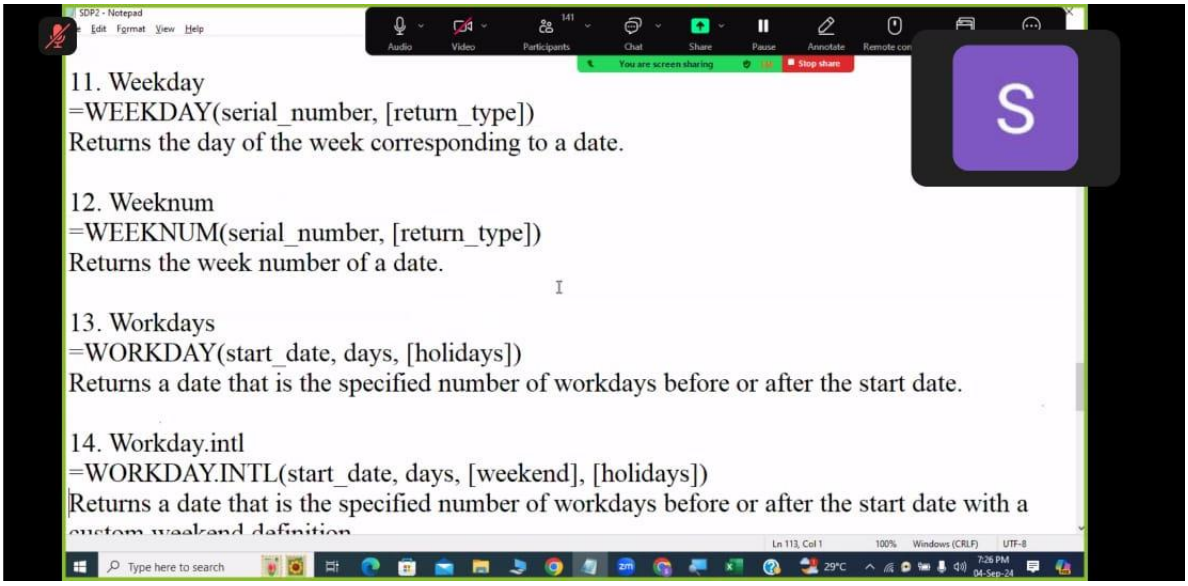
As part of the Convocation Week Celebration, the Department of [Department Name] organized a one-week online Student Development Programme (SDP) on "Advanced Excel with Data Visualization" from September 2 to 6, 2024. This initiative was conducted in association with the E & ICT Academy, IIT Kanpur, and supported by the IEEE Chapter of the Department. The programme was organized under the Memorandum of Understanding (MoU) between the Department and IIT Kanpur, with Dr. H.S. Hota, the Head of the Department, serving as the Convenor and Dr. Shriya Sahu as the Coordinator.

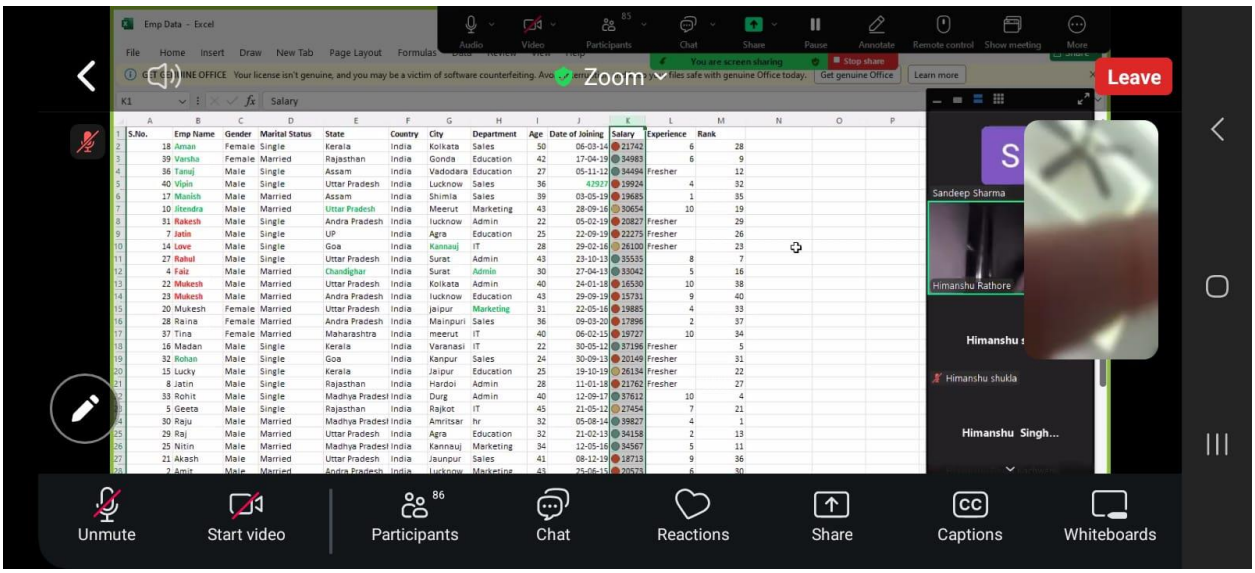
The SDP aimed to advance students' skills in Microsoft Excel, focusing on both foundational and advanced features essential for data analysis and visualization. The programme covered a broad range of topics starting from the basics of Excel to more complex functions. Participants gained practical experience with various Excel functions, including SUM, AVERAGE, COUNT, MAX, MIN, financial, logical, date & time functions, and conditional statements. Additionally, the sessions delved into data sorting, auto filter, custom filter, advanced filter, and statistical functions.

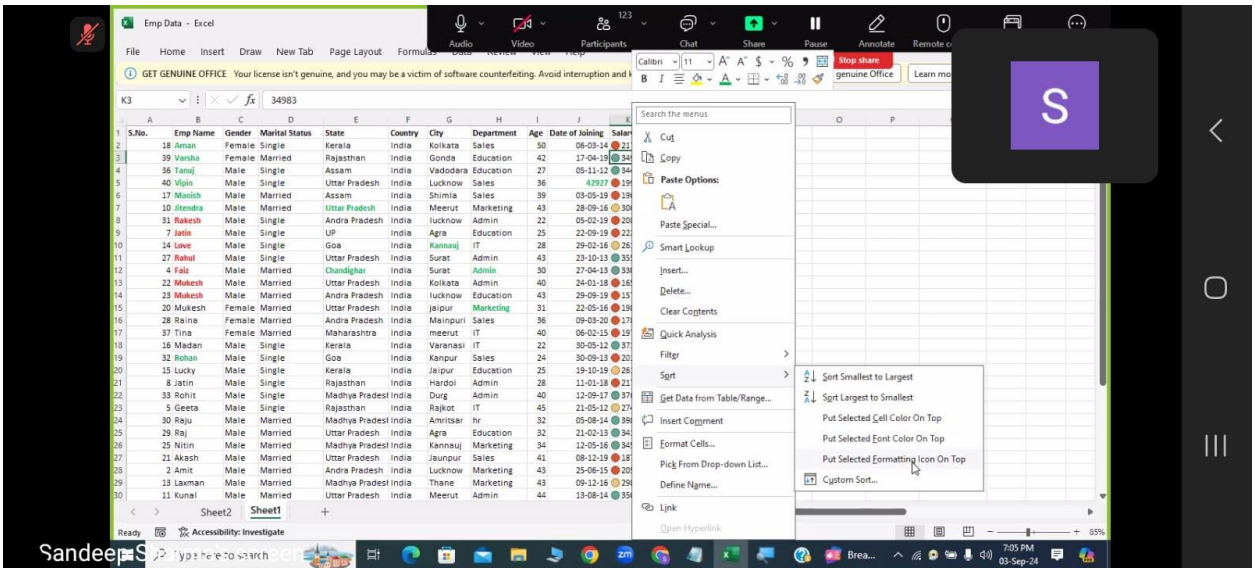
The online format of the programme included interactive sessions that combined theoretical instruction with hands-on practice. Students engaged in real-time exercises, applying Excel functions to actual data sets, which helped them understand and utilize these tools effectively. The curriculum was designed to equip students with skills that are highly valuable for academic and professional contexts.

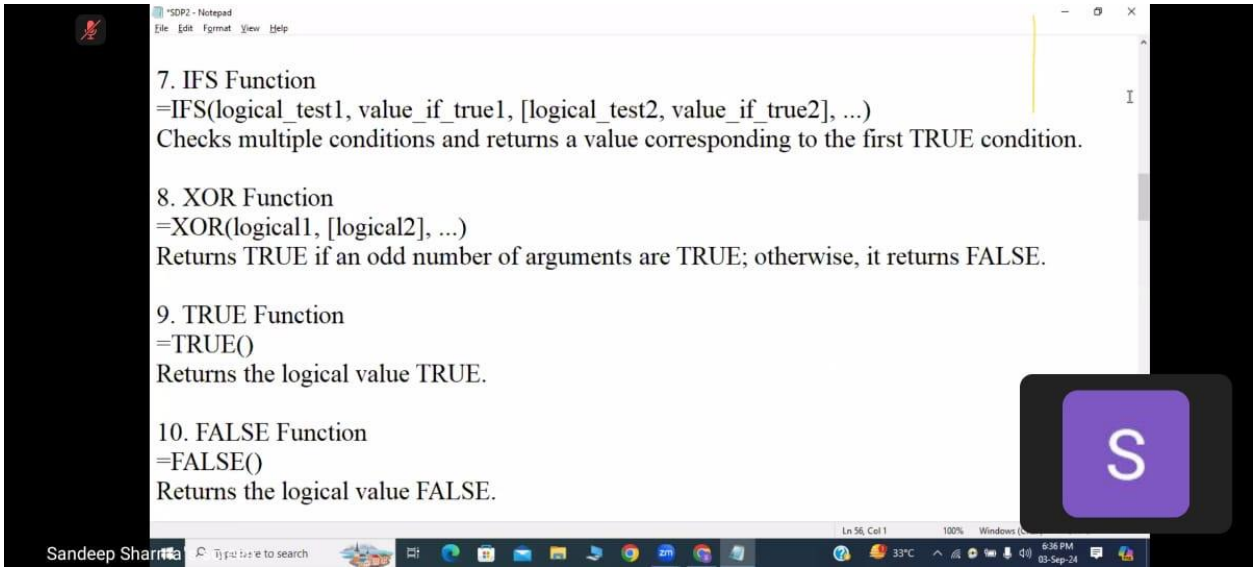
At the conclusion of the SDP, certificates were awarded to all participants, recognizing their successful completion of the programme. Feedback from attendees was positive, highlighting the practical value of the training and the effectiveness of the hands-on approach. Overall, the SDP was successful in achieving its objectives, providing students with valuable skills that will benefit their academic and professional endeavors.

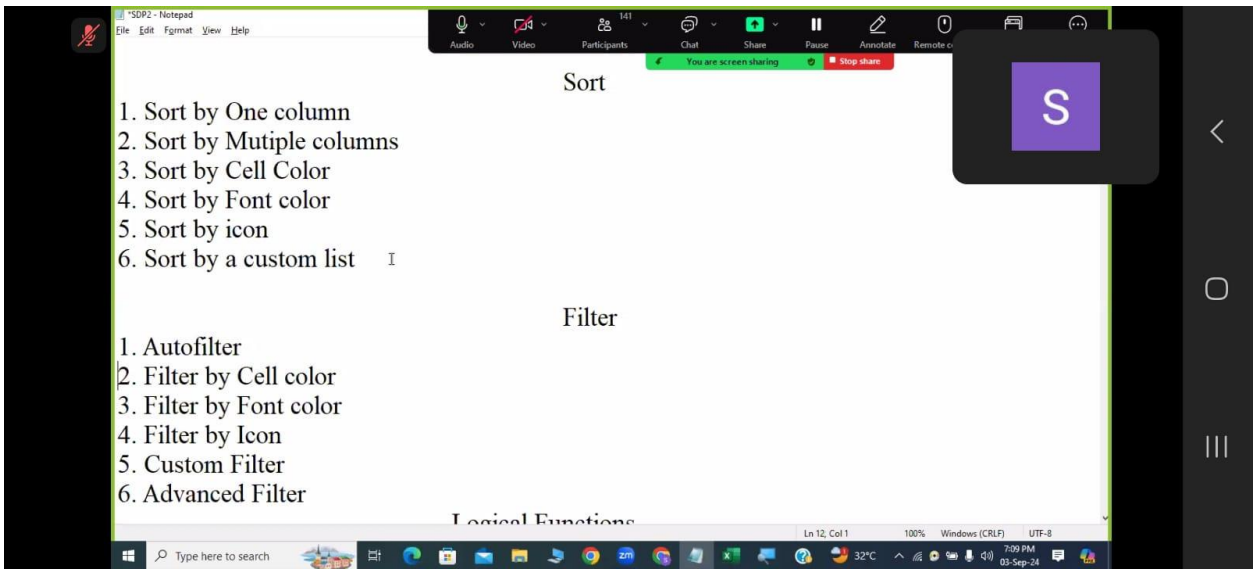
The programme significantly contributed to the students' development and was a valuable addition to the Convocation Week Celebration activities.

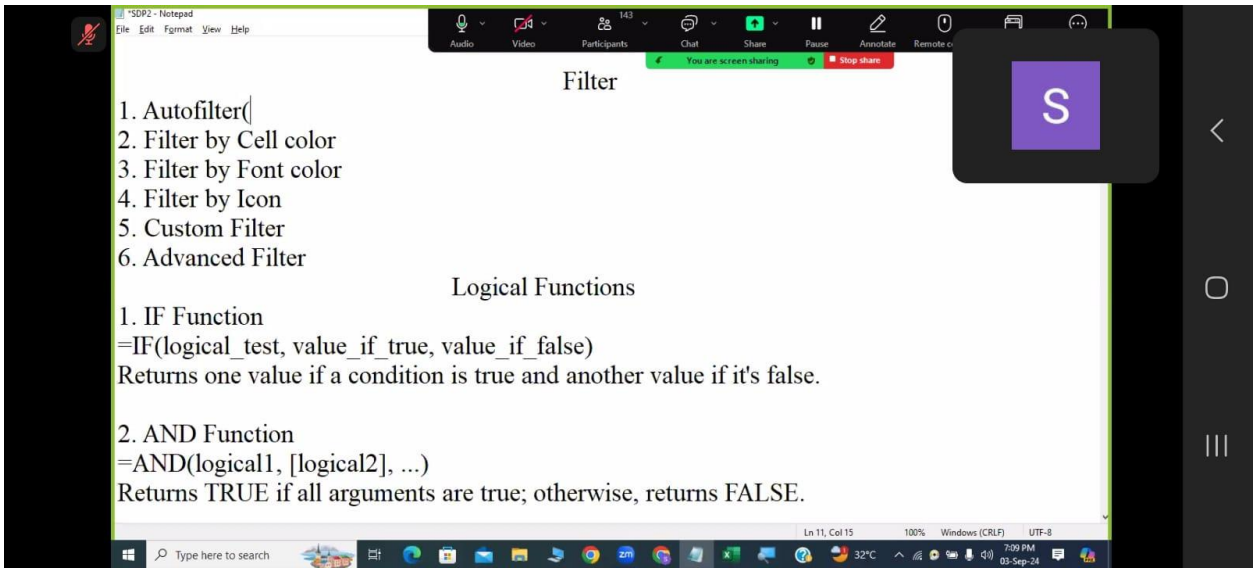

SDP2 - Notepad
File Edit Format View Help
11. Weekday
=WEEKDAY(serial_number, [return_type])
Returns the day of the week corresponding to a date.
12. Weeknum
=WEEKNUM(serial_number, [return_type])
Returns the week number of a date.
13. Workdays
=WORKDAY(start_date, days, [holidays])
Returns a date that is the specified number of workdays before or after the start date.
14. Workday.intl
=WORKDAY.INTL(start_date, days, [weekend], [holidays])
Returns a date that is the specified number of workdays before or after the start date with a
Audio Video Participants Chat Share Pause Annotate
You are screen sharing
Stop share
S
Ln 113, Col 1 100% Windows (CRLF) UTF-8
Type here to search
7:26 PM 04-Sep-24

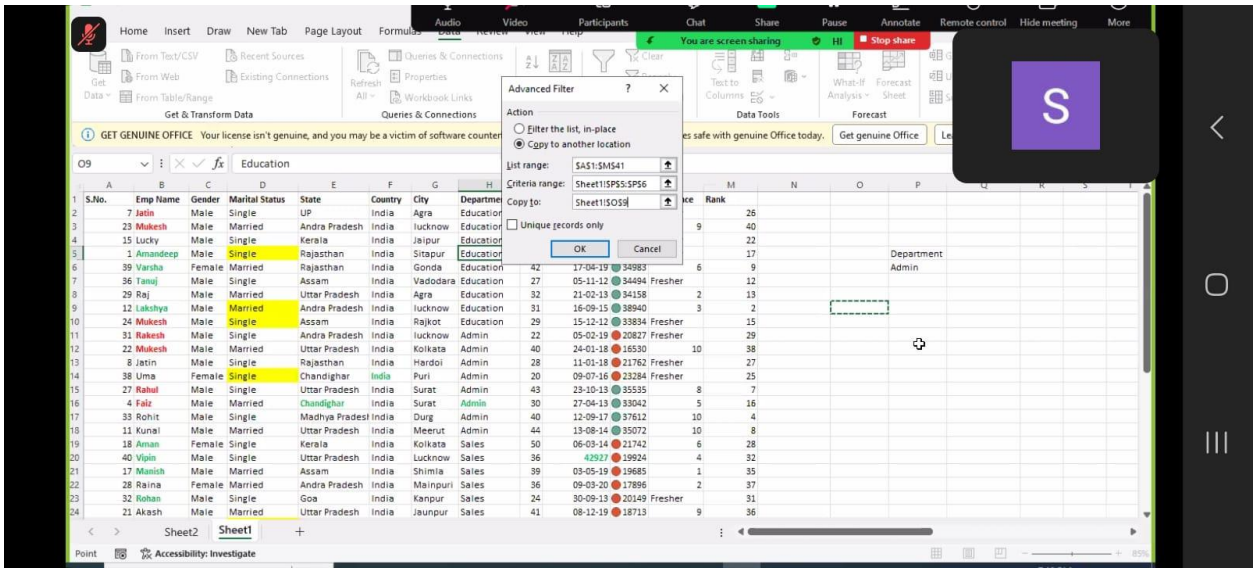

Emp Data - Excel
Zoom
Leave
Sandeep Sharma
Himanshu Rathore
Himanshu shukla
Himanshu Singh...
Unmute
Start video
Participants
86
Chat
Reactions
Share
Captions
Whiteboards

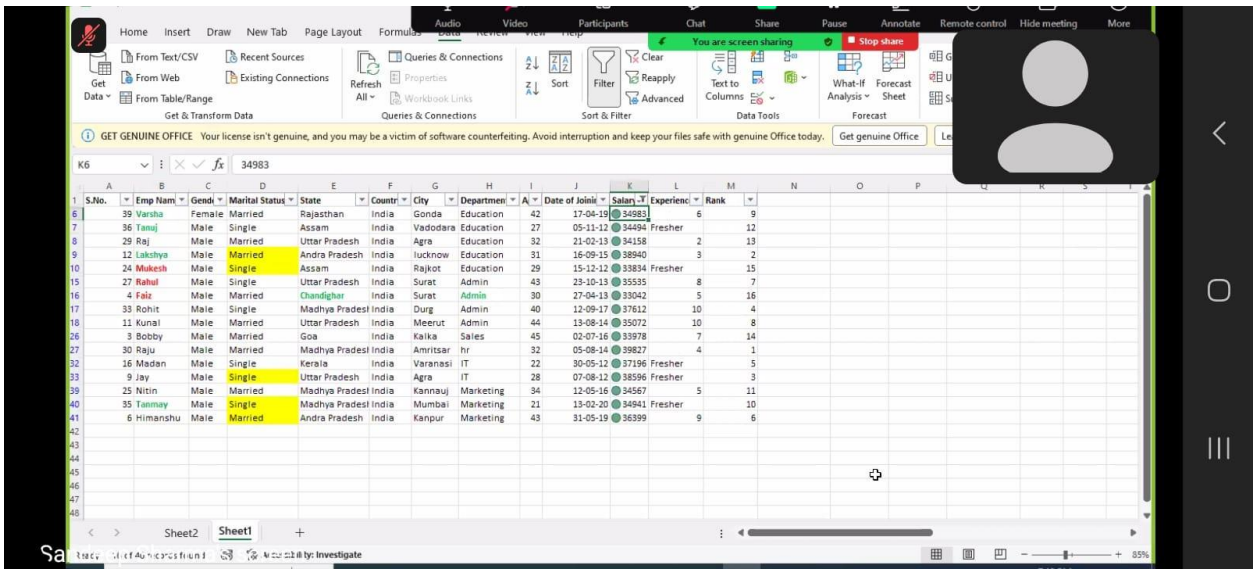

Emp Data - Excel
GET GENUINE OFFICE Your license isn't genuine, and you may be a victim of software counterfeiting. Avoid interruption and
Paste Options:
Paste Special...
Smart Lookup
Insert...
Delete...
Clear Contents
Quick Analysis
Filter
Sort
Get Data from Table/Range...
Insert Comment
Format Cells...
Pick From Drop-down List...
Define Name...
Link
Sort Smallest to Largest
Sort Largest to Smallest
Put Selected Cell Color On Top
Put Selected Font Color On Top
Put Selected Formatting Icon On Top
Custom Sort...
Sheet2
Sheet1
Ready
Accessibility: Investigate
S
Sandeep S
Type here to search
7:05 PM 03-Sep-24

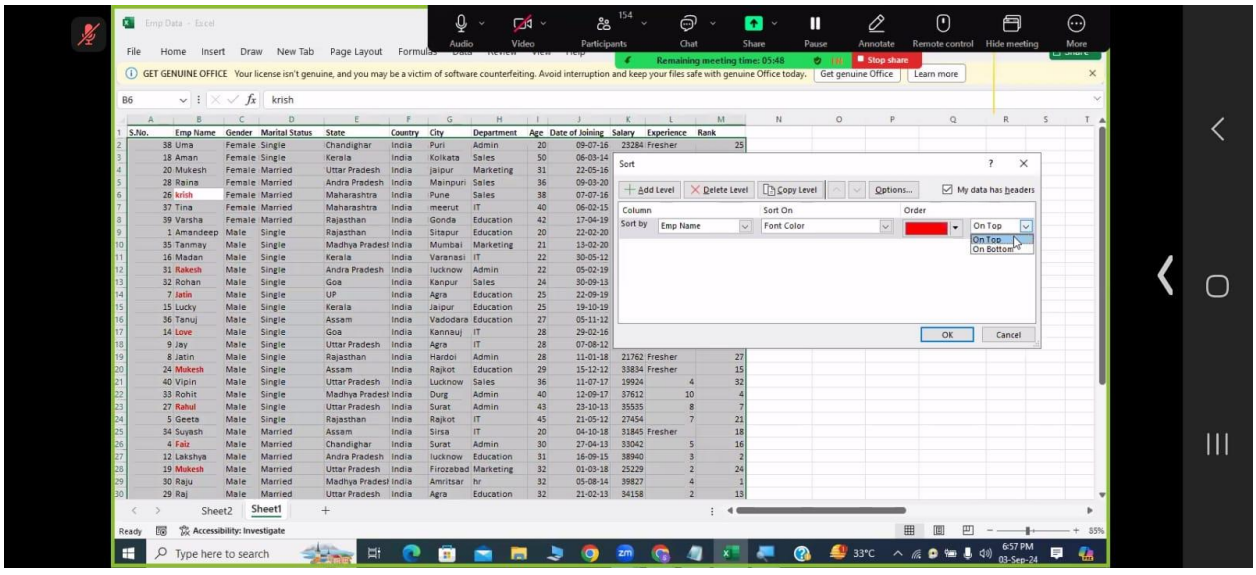

*SDP2 - Notepad
File Edit Format View Help
7. IFS Function
=IFS(logical_test1, value_if_true1, [logical_test2, value_if_true2], ...)
Checks multiple conditions and returns a value corresponding to the first TRUE condition.
8. XOR Function
=XOR(logical1, [logical2], ...)
Returns TRUE if an odd number of arguments are TRUE; otherwise, it returns FALSE.
9. TRUE Function
=TRUE()
Returns the logical value TRUE.
10. FALSE Function
=FALSE()
Returns the logical value FALSE.
S
Sandeep Sharma

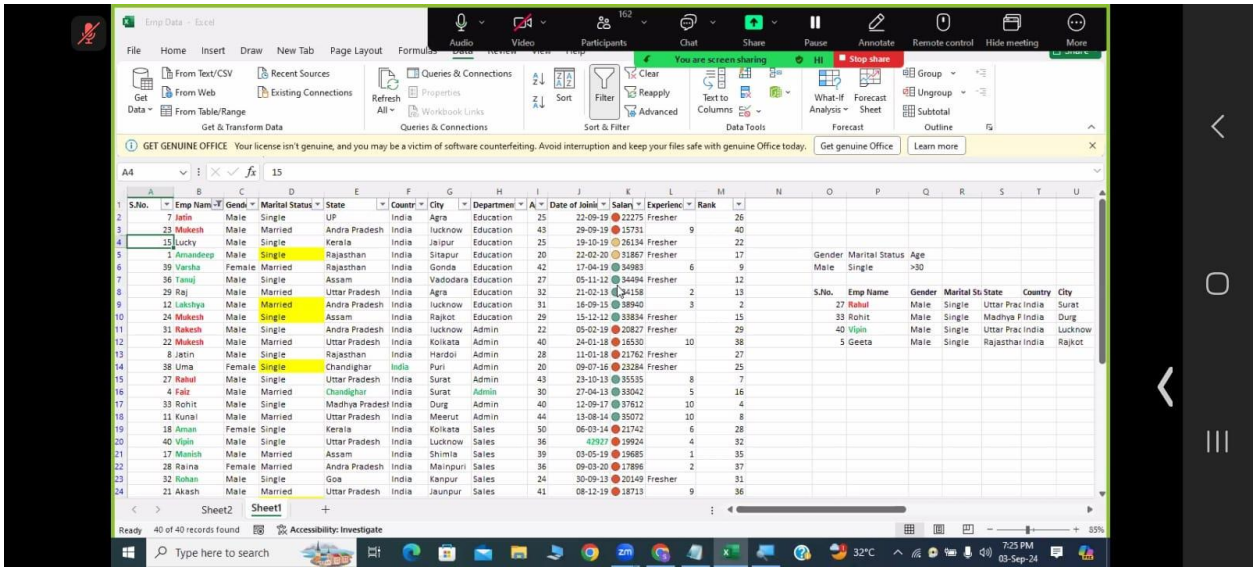

*SDP2 - Notepad
File Edit Format View Help
Audio Video Participants Chat Share Pause Annotate
You are screen sharing Stop share
Sort
1. Sort by One column
2. Sort by Mutiple columns
3. Sort by Cell Color
4. Sort by Font color
5. Sort by icon
6. Sort by a custom list
Filter
1. Autofilter
2. Filter by Cell color
3. Filter by Font color
4. Filter by Icon
5. Custom Filter
6. Advanced Filter
Logical Functions
S

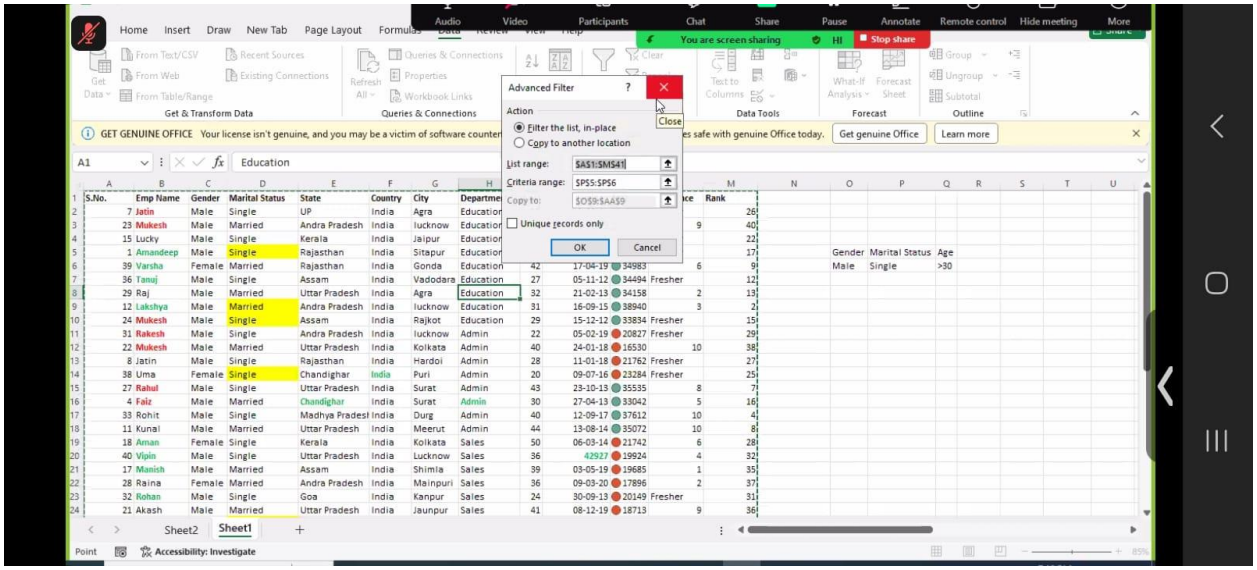

*SDP2 - Notepad
File Edit Format View Help
Audio Video Participants Chat Share Pause Annotate
You are screen sharing Stop share
Filter
1. Autofilter(
2. Filter by Cell color
3. Filter by Font color
4. Filter by Icon
5. Custom Filter
6. Advanced Filter
Logical Functions
1. IF Function
=IF(logical_test, value_if_true, value_if_false)
Returns one value if a condition is true and another value if it's false.
2. AND Function
=AND(logical1, [logical2], ...)
Returns TRUE if all arguments are true; otherwise, returns FALSE.
S

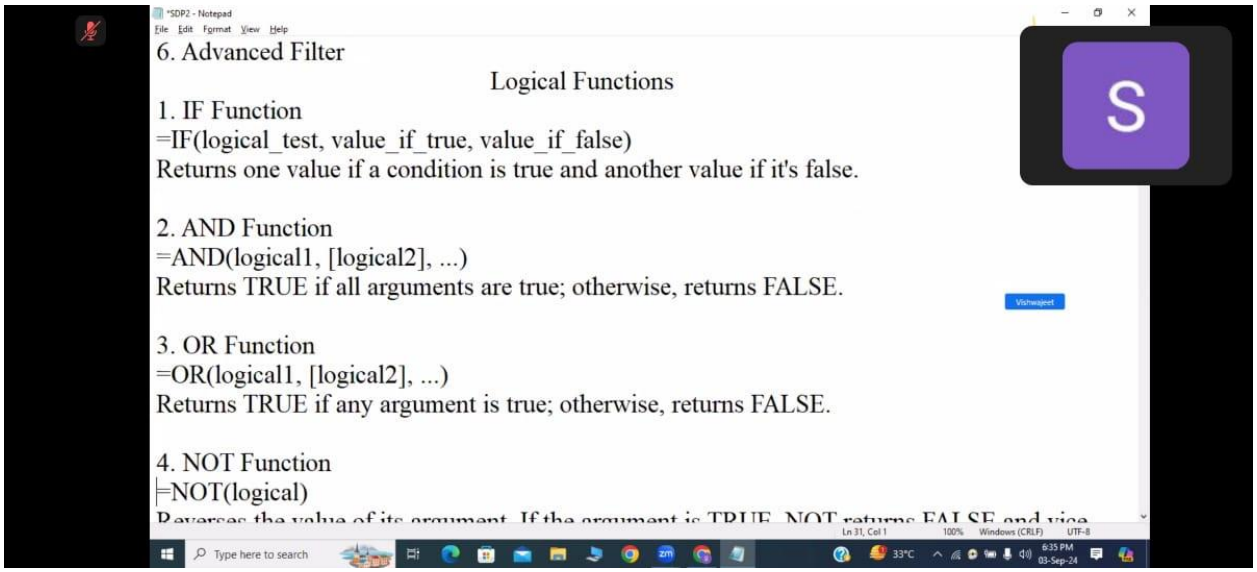

Advanced Filter
Action
Filter the list, in-place
Copy to another location
List range: $A$1:$M$41
Criteria range: Sheet1!$P$5:$P$6
Copy to: Sheet1!$O$9
Unique records only
OK
Cancel
Department
Admin
Sheet2
Sheet1

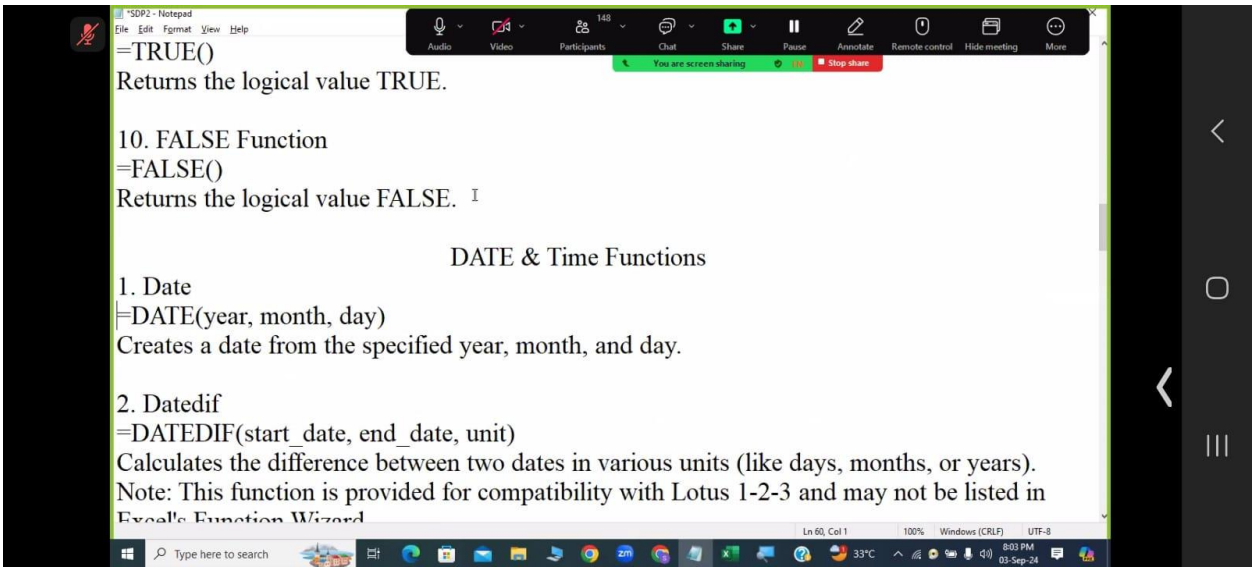

Sort & Filter
Data Tools
Forecast
Sheet2
Sheet1

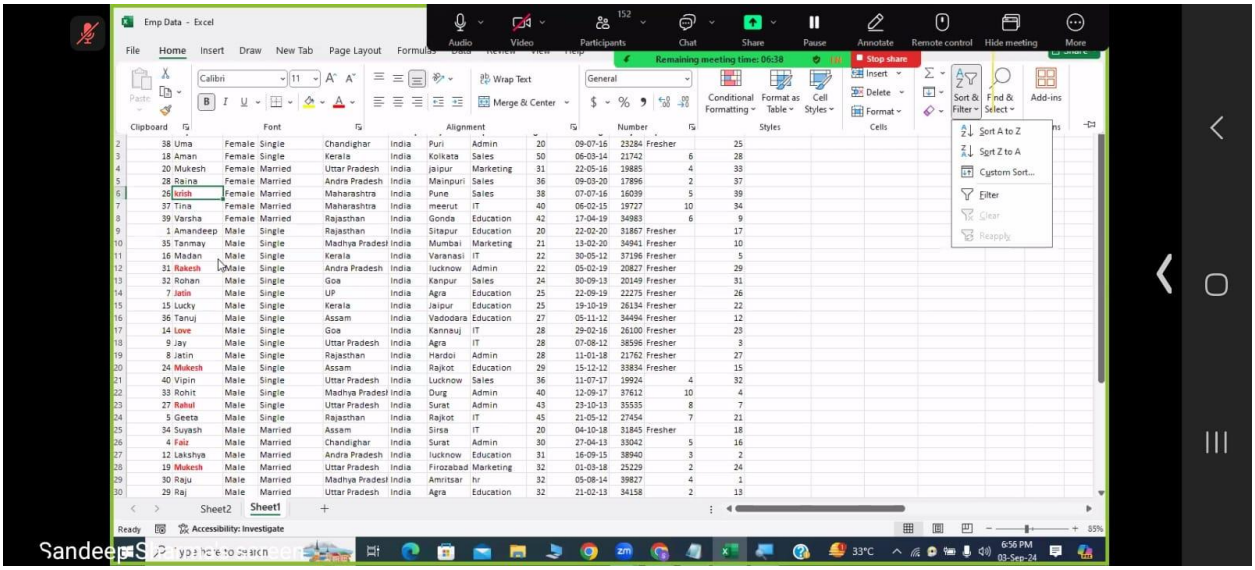

Sort
Add Level
Delete Level
Copy Level
Options...
My data has headers
Column
Sort On
Order
Sort by
Emp Name
Font Color
On Top
On Bottom
OK
Cancel
Sheet2
Sheet1

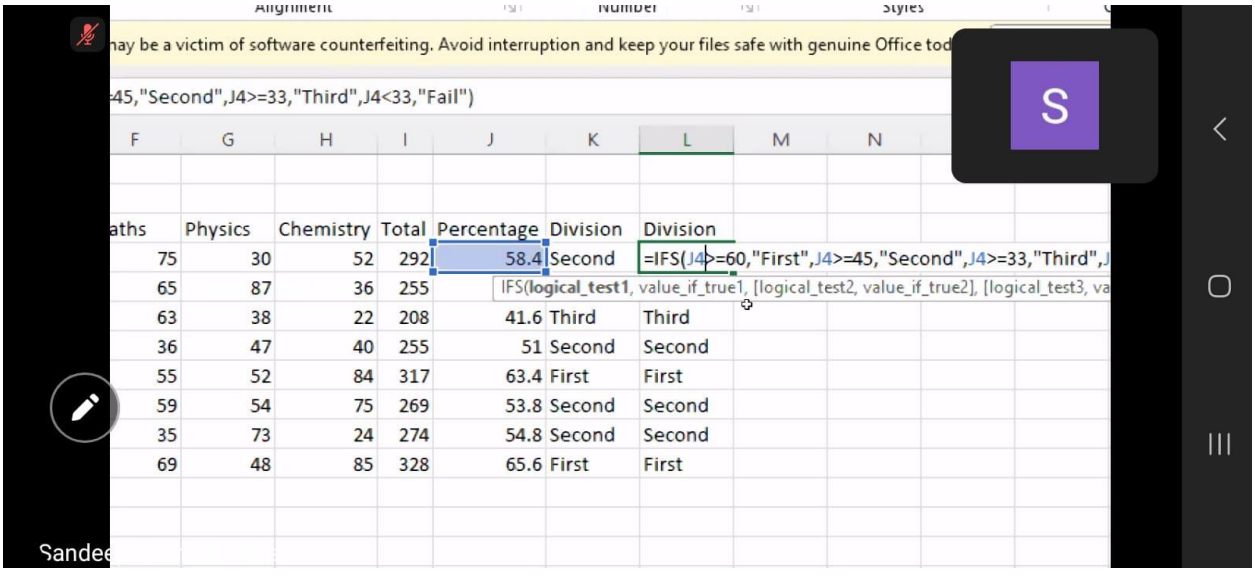


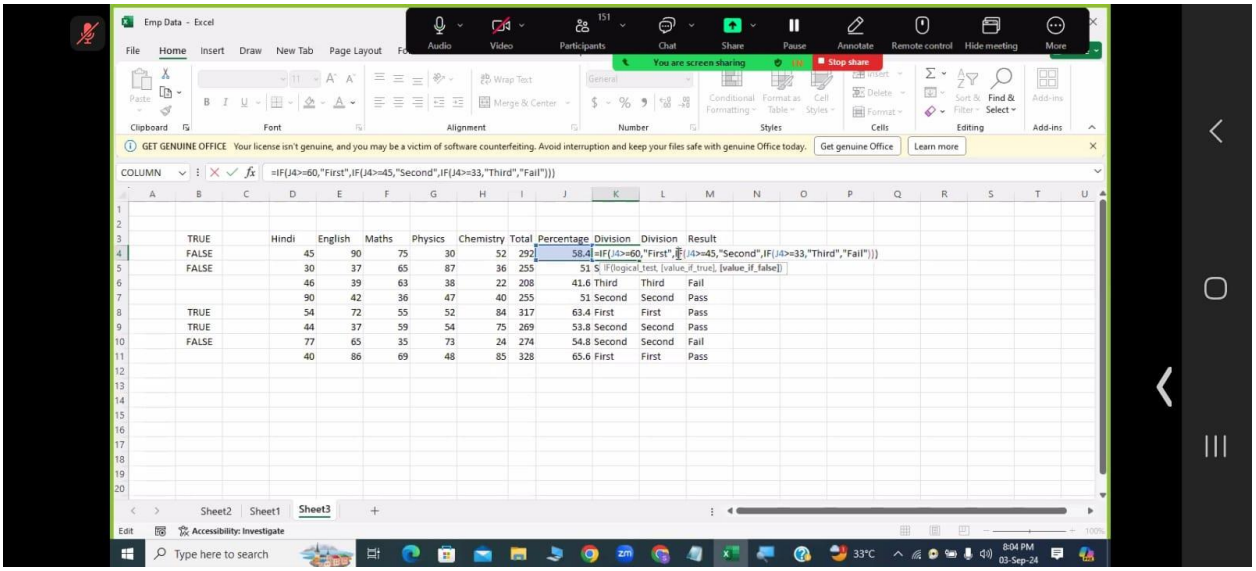


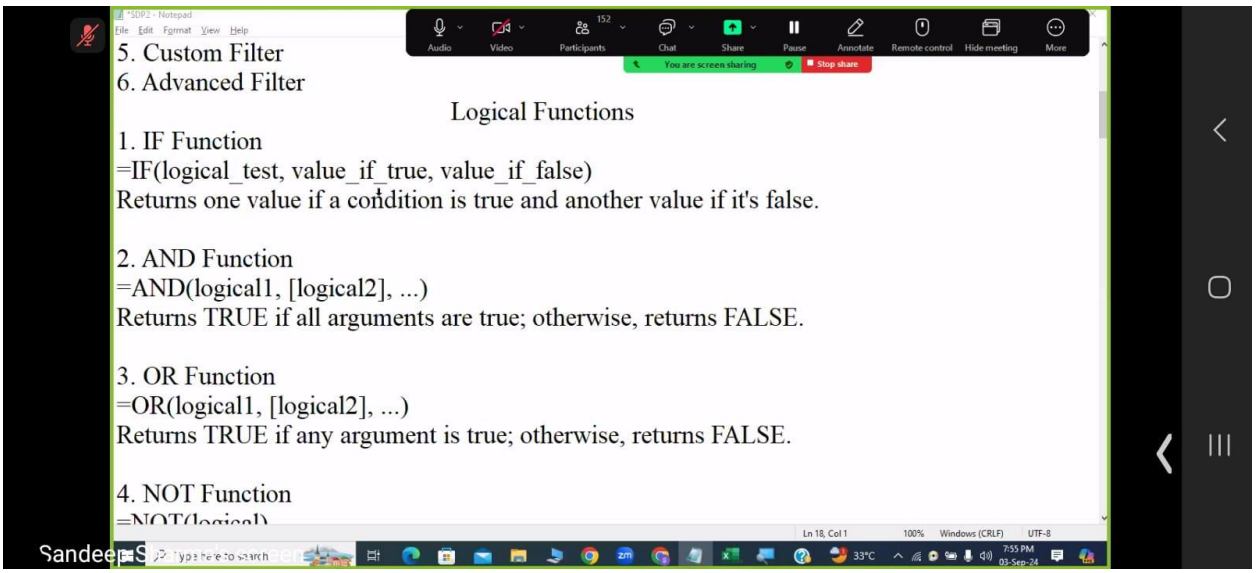

*SDP2 - Notepad
File Edit Format View Help
6. Advanced Filter
Logical Functions
1. IF Function
=IF(logical_test, value_if_true, value_if_false)
Returns one value if a condition is true and another value if it's false.
2. AND Function
=AND(logical1, [logical2], ...)
Returns TRUE if all arguments are true; otherwise, returns FALSE.
3. OR Function
=OR(logical1, [logical2], ...)
Returns TRUE if any argument is true; otherwise, returns FALSE.
4. NOT Function
=NOT(logical)
Vishwajeet

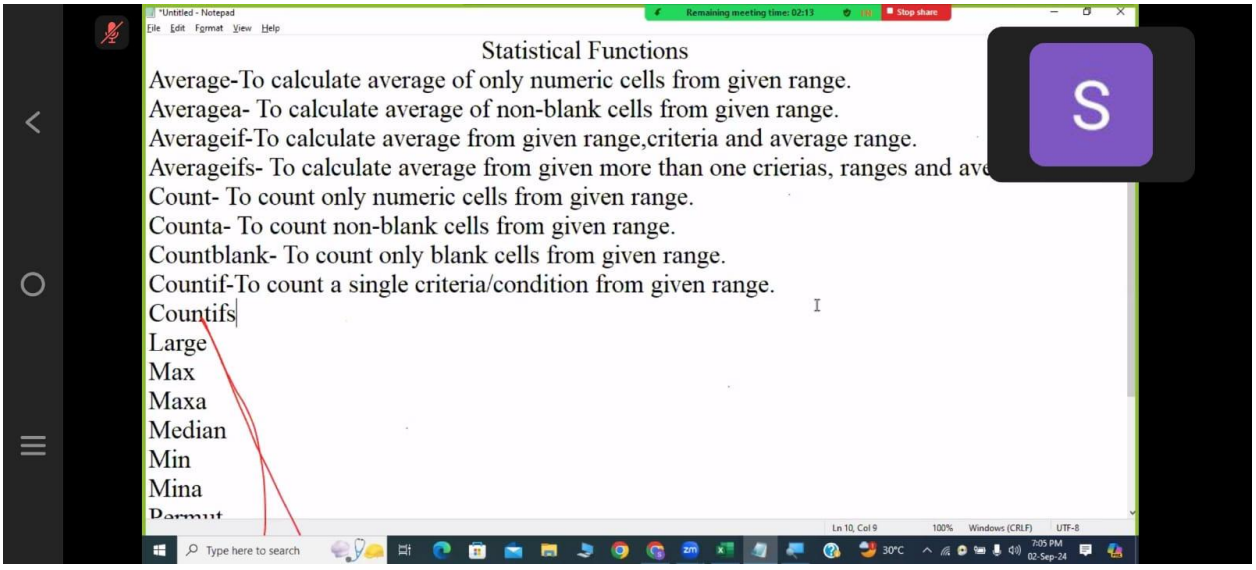

*SDP2 - Notepad
File Edit Format View Help
=TRUE()
Returns the logical value TRUE.
10. FALSE Function
=FALSE()
Returns the logical value FALSE.
DATE & Time Functions
1. Date
=DATE(year, month, day)
Creates a date from the specified year, month, and day.
2. Datedif
=DATEDIF(start_date, end_date, unit)
Calculates the difference between two dates in various units (like days, months, or years).
Note: This function is provided for compatibility with Lotus 1-2-3 and may not be listed in
Excel's Function Wizard


Emp Data - Excel
Sandeep S


=IFS(J4>=60,"First",J4>=45,"Second",J4>=33,"Third",J4<33,"Fail")
Maths Physics Chemistry Total Percentage Division Division
75 30 52 292 58.4 Second
65 87 36 255
63 38 22 208 41.6 Third Third
36 47 40 255 51 Second Second
55 52 84 317 63.4 First First
59 54 75 269 53.8 Second Second
35 73 24 274 54.8 Second Second
69 48 85 328 65.6 First First


Emp Data - Excel
=IF(J4>=60,"First",IF(J4>=45,"Second",IF(J4>=33,"Third","Fail")))
TRUE Hindi English Maths Physics Chemistry Total Percentage Division Division Result
FALSE 45 90 75 30 52 292 58.4 First First Pass
FALSE 30 37 65 87 36 255 51 Second Second Pass
46 39 63 38 22 208 41.6 Third Third Fail
90 42 36 47 40 255 51 Second Second Pass
TRUE 54 72 55 52 84 317 63.4 First First Pass
TRUE 44 37 59 54 75 269 53.8 Second Second Pass
FALSE 77 65 35 73 24 274 54.8 Second Second Fail
40 86 69 48 85 328 65.6 First First Pass
Sheet2 Sheet1 Sheet3
Type here to search


5. Custom Filter
6. Advanced Filter
Logical Functions
1. IF Function
=IF(logical_test, value_if_true, value_if_false)
Returns one value if a condition is true and another value if it's false.
2. AND Function
=AND(logical1, [logical2], ...)
Returns TRUE if all arguments are true; otherwise, returns FALSE.
3. OR Function
=OR(logical1, [logical2], ...)
Returns TRUE if any argument is true; otherwise, returns FALSE.
4. NOT Function
Ln 18, Col 1 100% Windows (CRLF) UTF-8


Statistical Functions
Average-To calculate average of only numeric cells from given range.
Averagea- To calculate average of non-blank cells from given range.
Averageif-To calculate average from given range,criteria and average range.
Averageifs- To calculate average from given more than one crierias, ranges and av
Count- To count only numeric cells from given range.
Counta- To count non-blank cells from given range.
Countblank- To count only blank cells from given range.
Countif-To count a single criteria/condition from given range.
Countifs
Large
Max
Maxa
Median
Min
Mina
Ln 10, Col 9 100% Windows (CRLF) UTF-8

| S.No. | Student Name | Class |
|---|---|---|
| 1 | Aseem Kujur | MCA - I Semester |
| 2 | Sanskar Sharma | MCA - I Semester |
| 3 | Purneshwar Khuntey | MCA - I Semester |
| 4 | Himanshu Rathore | MCA - I Semester |
| 5 | Aman Kurrey | MCA - III Semester |
| 6 | Ramchand | B.Sc. (Hons) V Semester |
| 7 | Aman Kaiwart | B.Sc. (Hons) V Semester |
| 8 | Abhishek B Yadav | MCA - I Semester |
| 9 | Anamika Kurrey | MCA - I Semester |
| 10 | Devesh Nand | B.Sc. (Hons) V Semester |
| 11 | Shahista Nigar | MCA - I Semester |
| 12 | Ranu Kaushik | MCA - I Semester |
| 13 | Ashish Patel | MCA - I Semester |
| 14 | Kishan Kaushik | MCA - I Semester |
| 15 | Sanskar | MCA - I Semester |
| 16 | Tikeshwar Sahu | MCA - I Semester |
| 17 | Anurag Kanwar | MCA - I Semester |
| 18 | Lara Sahu | MCA - I Semester |
| 19 | Anshika Dubey | MCA - I Semester |
| 20 | Shruti Soni | MCA - I Semester |
| 21 | Om Kumar Rathore | MCA - I Semester |
| 22 | Himani Shrivas | MCA - I Semester |
| 23 | Vikas Kumar Sahu | MCA - I Semester |
| 24 | Khushi Dansena | MCA - I Semester |
| 25 | Pratibha Pathak | MCA - I Semester |
| 26 | Shivangi Pandey | MCA - III Semester |
| 27 | Surendra Kumar | B.Sc. (Hons) V Semester |
| 28 | Nitesh Garhewal | B.Sc. (Hons) V Semester |
| 29 | Chandrashekhar Sahu | MCA - I Semester |
| 30 | Chandrashekhar Patel | BCA I Semester |
| 31 | Monika Aayam | BCA I Semester |
| 32 | Parul Kaushik | MCA - I Semester |
| 33 | Manas Vaishnaw | BCA I Semester |
| 34 | Fareeda Pathan | MCA - I Semester |
| 35 | Sakshi Yadav | MCA - I Semester |
| 36 | Jitendra Dewangan | MCA - I Semester |
| 37 | Muskan Nirmalkar | B.Sc. (Hons) V Semester |

| | | |
|---|---|---|
| 38 | Aniket Shrivas | MCA - I Semester |
| 39 | Rajkumar Sahu Sahu | MCA - I Semester |
| 40 | Rajvir Singh | MCA - I Semester |
| 41 | Lakshman | BCA I Semester |
| 42 | Kanhaiya Das Manikpuri | MCA - I Semester |
| 43 | Praveen Bhargaw | MCA - I Semester |
| 44 | Sumita Samanta | MCA - III Semester |
| 45 | Tiya Kesharwani | M.Sc. (CS) I Semester |
| 46 | Shubhangi Dewangan | MCA - I Semester |
| 47 | Baldev Kaushik | MCA - I Semester |
| 48 | Harish Kumar Patel | MCA - I Semester |
| 49 | Yaman Kumar | MCA - I Semester |
| 50 | Dimpal Patel | B.Sc. (Hons) V Semester |
| 51 | Anshul Kushwaha | MCA - I Semester |
| 52 | Vikas Dewangan | MCA - I Semester |
| 53 | Abhishek Kamal | M.Sc. (CS) III Semester |
| 54 | Lema Dewangan | M.Sc. (CS) III Semester |
| 55 | Suprit Banerjee | MCA - III Semester |
| 56 | Devlal Patel | M.Sc. (CS) III Semester |
| 57 | Neetu Patel | MCA - III Semester |
| 58 | Manju Yadav | B.Sc. (Hons) V Semester |
| 59 | Aditi Sao | B.Sc. (Hons) V Semester |
| 60 | Akhil Mishra | B.Sc. (Hons) V Semester |
| 61 | Bhagyavati Gupta | MCA - I Semester |
| 62 | Priyanka Sahu | MCA - I Semester |
| 63 | Jitesh Kumar Dewangan | MCA - I Semester |
| 64 | Lilima Rathore | MCA - I Semester |
| 65 | Purnmesh Tiwari | B.Sc. (Hons) V Semester |
| 66 | Aastha Sahu | B.Sc. (Hons) V Semester |
| 67 | Aastha Vithalkar | BCA I Semester |
| 68 | Keshav Kaiwartya | BCA I Semester |
| 69 | Harshikha Dewangan | MCA - I Semester |
| 70 | Kirti Bareth | MCA - I Semester |
| 71 | T Anisha | MCA - III Semester |
| 72 | Gitesh Kumar | MCA - I Semester |
| 73 | Vasudev | M.Sc. (CS) III Semester |
| 74 | Aarti Rathore | M.Sc. (CS) I Semester |
| 75 | Umakant | MCA - I Semester |
| 76 | Antra Pardhan | B.Sc. (Hons) I Semester |

| | | |
|---|---|---|
| 77 | Ritu Yadav | B.Sc. (Hons) I Semester |
| 78 | Soumya Dewangan | B.Sc. (Hons) I Semester |
| 79 | Yamini Chandra | B.Sc. (Hons) I Semester |
| 80 | Khushi Rani | B.Sc. (Hons) I Semester |
| 81 | Anjali Diwakar | B.Sc. (Hons) I Semester |
| 82 | Atulya Soni | B.Sc. (Hons) I Semester |
| 83 | Kritika Rathore | BCA I Semester |
| 84 | Toshni Dewangan | BCA I Semester |
| 85 | Kanika Verma | BCA I Semester |
| 86 | Prasansha Mishra | B.Sc. (Hons) I Semester |
| 87 | Tarun Shreyaskar | BCA I Semester |
| 88 | Karan Kumar | B.Sc. (Hons) I Semester |
| 89 | Ashish Tiwari | B.Sc. (Hons) I Semester |
| 90 | Prachi Sharma | B.Sc. (Hons) I Semester |
| 91 | Suman Nirmalkar | MCA - I Semester |
| 92 | Swapnil Sahu | B.Sc. (Hons) I Semester |
| 93 | Priyanka Mathur | B.Sc. (Hons) I Semester |
| 94 | Kamal Gavel | PhD Scholor |
| 95 | Rakesh Ratre | B.Sc. (Hons) I Semester |
| 96 | Venktesh Yadav | B.Sc. (Hons) I Semester |
| 97 | Shivam Sarthi | BCA I Semester |
| 98 | Mousam Patel | B.Sc. (Hons) I Semester |
| 99 | Manish Kumar Sahu | B.Sc. (Hons) I Semester |
| 100 | Raghavi Thakur | B.Sc. (Hons) I Semester |
| 101 | Smriti Pandey | B.Sc. (Hons) I Semester |
| 102 | Shalini Sahu | B.Sc. (Hons) I Semester |
| 103 | Rahul Sidar | B.Sc. (Hons) I Semester |
| 104 | Muskan Sao | M.Sc. (CS) I Semester |
| 105 | Shailesh Kumar Tonder | BCA I Semester |
| 106 | Shreya Chaubey | B.Sc. (Hons) I Semester |
| 107 | Priya Patel | B.Sc. (Hons) I Semester |
| 108 | Ankit Kumar Dubey | MCA - I Semester |
| 109 | Aniket Pandey | BCA I Semester |
| 110 | Farukh Ahmed | BCA I Semester |
| 111 | Suman | MCA - I Semester |
| 112 | Priyanshu Soni | B.Sc. (Hons) I Semester |
| 113 | Aditya Kumar | B.Sc. (Hons) I Semester |
| 114 | Aditya Raj Dwivedi | BCA I Semester |
| 115 | Anisha Patel | MCA - I Semester |

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| 116 | Mayank Sinha | MCA - I Semester |
| 117 | Sanvi Agrawal | BCA I Semester |
| 118 | Nyasa Sharma | M.Sc. (CS) I Semester |
| 119 | Kunal Khaterjee | BCA I Semester |
| 120 | Jaya Shukla | B.Sc. (Hons) I Semester |
| 121 | Shruti Yadav | MCA - I Semester |
| 122 | Vansh Shrivastava | B.Sc. (Hons) I Semester |
| 123 | Saurabh Shriwastav | M.Sc. (CS) I Semester |
| 124 | Avinash Aind | M.Sc. (CS) I Semester |