



# किरोड़ी मल कॉलेज

दिल्ली विश्वविद्यालय, दिल्ली - 110007

## Kirori Mal College

University of Delhi, Delhi - 110007

Email: principal@kmc.du.ac.in Tel. No.: 011-27667939

Website: kmc.du.ac.in



### 1.2 Academic Flexibility

#### 1.2.1. Number of Add on /Certificate/Value added programs

| Certificate   | Duration | Focus on Employability/<br>Entrepreneurship | No of Students<br>enrolled |
|---|----------|---|----------------------------|
| CERTIFICATE COURSE IN METAGENOMICS<br>&BIOINFORMATICS | 19 Days  | Yes   | 59                         |

| S.NO. | Name of the Participant | Course   | Institution Name  |
|-------|-------------------------|--|---|
| 1     | Om Das                  | B.Sc. Honours Zoology  | Kirori Mal College  |
| 2     | Vasundhara Sharma       | Bsc. Hons. Zoology   | Kirori mal college  |
| 3     | Abhilash Kumar          | Ph.D   | University of Delhi   |
| 4     | Amal. A                 | Bsc (hons) botany  | Kirori mal college  |
| 5     | Ananya                  | Bsc life science   | Dyal Singh college  |
| 6     | Aniruddha Ghosh         | Biochemistry (H)   | Deshbandhu college DU   |
| 7     | Anish Tamang            | Certificate Course in<br>Bioinformatics                            | CSIR-Institute of Himalayan Bioresource<br>Technology, Palampur |
| 8     | Anusree A R             | Microbiology   | Kerala Agricultural University                                  |
| 9     | Ayush Thakur            | BSc (P) Life Sciences  | Kirori Mal College  |
| 10    | Atika                   | BSc life science   | Ramjas College  |
| 11    | Atishya Kapoor          | Bsc Zoology hons   | Kirori Mal college  |
| 12    | Ayushi Sharma           | B.Sc. (H) Biological<br>Science                                    | Sri Venkateswara College, Delhi University                      |
| 13    | Dasari Meghana          | Bsc(Hon) Zoology   | Deen Dayal Upadhayay college                                    |
| 14    | Dr. Dhanya KC           | Microbiology   | St. Mary's College, Thrissur, Kerala, India                     |
| 15    | Dolly                   | Zoology hons   | Kirori mal college  |
| 16    | Gayatri Garg            | Class XII  | K R Mangalam World School                                       |
| 17    | Harshita Raj            | B.Sc (Hons.) Zoology   | Kirori Mal College, University of Delhi                         |
| 18    | Ingochouba Lukram       | Faculty  | Kirori mal college  |
| 19    | Aditi Jain              | Bsc(prog)life sciences   | Ramjas college, Delhi University                                |
| 20    | Swasti Jain             | B.Sc. Life Sciences  | Dyal Singh College  |
| 21    | JYOTI SHARMA            | Certificate course in<br>Metagenomics and<br>Bioinformatics        | CSIR IHBT   |
| 22    | Shruti Kapoor           | Bsc. Hons. Zoology   | Kirori Mal college  |
| 23    | ANOUSHKA KHANNA         | ONLINE CERTIFICATE<br>COURSE IN<br>METAGENOMICS<br>&BIOINFORMATICS | INMAS, DRDO   |

V. Chauhan.

(प्रो. विभा सिंह चौहान)  
Prof. Vibha Singh Chauhan  
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|    |                      |  |  |
|----|----------------------|--|--|
| 24 | Koshika              | Bsc (prog) life sciences                                   | Ramjas college, University of Delhi                          |
| 25 | Bhukya Sathish Kumar | BSC Hons Botany  | Kirori mal college   |
| 26 | Keshav Garg          | Class - XE   | K.R. Mangalam World School, Vikaspuri                        |
| 27 | Manya Mehta          | BIOINFORMATICS   | KR mangalam  |
| 28 | Mehak Das            | B.Sc. Chemistry Hons.                                      | Kirori Mal College, University of Delhi                      |
| 29 | K.Murugan            | ONLINE CERTIFICATE COURSE IN METAGENOMICS & BIOINFORMATICS | SSN College of Engineering, Kalavakkam - 603110              |
| 30 | NANDANA M S          | Agricultural Microbiology                                  | College of Agriculture, Vellayani                            |
| 31 | Neha Baliyan         | Module I, II, III  | CSIR-IHBT, Palampur, H.P., India                             |
| 32 | NYSANTH N S          | MICROBIOLOGY   | ICAR - Indian Agricultural Research Institute                |
| 33 | Parul Soni           | BSC LIFESCIENCES PROGRAMME                                 | Ramjas College   |
| 34 | Dr. Prabha Arya      | NA   | Deshbandhu College, University of Delhi                      |
| 35 | Pratiksha Mauryaa    | B.Sc (botany and zoology)                                  | Dayalbagh Educational Institute (DEI)                        |
| 36 | Prema Mauryaa        | Bsc (zoology- botany)                                      | Dayalbagh Educational Institute                              |
| 37 | Rajeshwaran B        | Agricultural Entomology                                    | Kerala Agricultural University                               |
| 38 | RAMRAJ SINGH NAYAK   | Ph.D. Scholar  | Guru Ghasidas Vishwavidyalaya, Bilaspur (C.G.)               |
| 39 | Randhir Singh        | B.Sc.(H) Biomedical Science                                | Bhaskaracharya College of Applied Sciences, Delhi University |
| 40 | Ravia Kaur           | Zoology Hons   | Kirori Mal College   |
| 41 | Ayush lepcha         | Environmental Biotechnology and Microbiology               | CSIR- INSTITUTE OF HIMALAYAN BIORESOURCE TECHNOLOGY          |
| 42 | Sachin khandelwal    | Bsc (Hons) zoology   | Kirorimal college  |
| 43 | Sandeep Kumar        | BSc (hons) Zoology   | Kirori Mal College   |
| 44 | Sanjeev Kumar Sharma | PhD  | CSIR-IHBT  |
| 45 | Shalini Tripathi     | BSc Biotechnology  | Banasthali Vidyapith   |
| 46 | Sivapriya S.L        | Agricultural microbiology                                  | Kerala agricultural University                               |
| 47 | Dr. Sneha Sagar      | faculty  | Zakir Husain Delhi College                                   |
| 48 | Sonu kumar           | Microbiology   | Bhaskaracharya College of Applied Sciences, DU               |
| 49 | SHREE NAVEENA P      | Entomology   | Kerala Agricultural Entomology                               |
| 50 | Srishti Dhiman       | B. Sc. Zoology Hons.                                       | Kirori Mal College   |
| 51 | Dr Swati Bajaj       | Assistant Professor Zoology                                | Gargi College  |
| 52 | VIDIT ZAINITH        | BSc Life Science   | Dyal Singh College   |
| 53 | VIKASH RAJ           | Biomedical Sciences  | Bhaskaracharya College of Applied Sciences                   |
| 54 | RUVEENA T N          | Microbiology   | St. Mary's College, Thrissur, Kerala                         |

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|----|------------------------|---------------------------------|---|
| 55 | Sankalp Kaushal        | Bachelor of Technology          | JSS Academy of Technical Education, Noida |
| 56 | Anupam Varshney Sharma | Faculty member                  | Hindu College                             |
| 57 | Anshu Ranjan           | Bsc life science                | Ramjas college                            |
| 58 | Taneya Gupta           | Btech Biotechnology             | IMS Engineering College                   |
| 59 | Priyal Mishra          | Metagenomics and Bioinformatics | IMSEC engineering collage                 |

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| S.NO. | Name of the Person Received Certificate of Appreciation for conducting the Certificate course | Institution Name                                  |
|-------|---|---|
| 1     | Dr. Gauri Garg Dhingra  | Kirori Mal College, University of Delhi           |
| 2     | Dr. Utakarsh Sood   | The Energy and Resources Institute, New Delhi     |
| 3     | Dr. Princy Hira   | Maitreyi College, University of Delhi             |
| 4     | Dr. Renu Solanki  | Deen Dayal Upadhyaya College, University of Delhi |
| 5     | Dr. Roshan Kumar  | P.G. Department of Zoology, Magadh University     |
| 6     | Dr. Helianthous Verma   | Ramjas College, University of Delhi               |
| 7     | Dr. Jasvinder Kaur  | Gargi College, University of Delhi                |
| 8     | Dr. Shailly Anand   | Deen Dayal Upadhyaya College, University of Delhi |
| 9     | Dr. Charu Dogra Rawat   | Ramjas College, University of Delhi               |

| S.NO. | Name of the Person who Received Certificate of Organization for Organising Certificate course | Institution Name                        |
|-------|---|---|
| 1     | Dr. M. Ramananda Singh  | Kirori Mal College, University of Delhi |
| 2     | Dr. Gauri Garg Dhingra  | Kirori Mal College, University of Delhi |
| 3     | Ram Sunil Kumar Lalji   | Kirori Mal College, University of Delhi |
| 4     | Dr. Chongtham Jiten   | Kirori Mal College, University of Delhi |
| 5     | Mr. B. Semthanga  | Kirori Mal College, University of Delhi |
| 6     | Dr. Khusro Moin   | Kirori Mal College, University of Delhi |
| 7     | Prof. Kalpana Bhrara  | Kirori Mal College, University of Delhi |
| 8     | Prof. Rakesh Kumar Pandey   | Kirori Mal College, University of Delhi |

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# CERTIFICATE COURSE IN METAGENOMICS & BIOINFORMATICS

*Organized by*  
**INTERNAL QUALITY ASSURANCE COMMITTEE (IQAC)**  
**Kirori Mal College, UoD, India**



*In association with*  
**PHIXGEN PVT. LTD., GURUGRAM, INDIA**

**1<sup>st</sup> July 2022-19 July 2022**

## PROGRAM

|   |                      |   |  |
|---|----------------------|---|--|
| <b>01.07.22</b><br>(Friday)<br><b>Inaugural Program</b> | <b>5:00 -7:00 pm</b> | <b>Welcome address</b><br><b>Opening address</b><br><b>Remarks by Principal</b><br><b>INAUGURAL LECTURE</b><br><b>Computational Biology in current scenario</b> | <b>Prof. Vibha Singh Chauhan</b><br><br><b>Prof. Rup Lal</b> |
|---|----------------------|---|--|

### Module 1- Introduction to Computational biology

| Session    | Date                           | Time            | Teaching Modules/<br>Hand-on Sessions                    | Faculty                              |
|------------|--------------------------------|-----------------|--|--------------------------------------|
| <b>I</b>   | <b>02.07.22</b><br>(Saturday)  | 5:00 – 7:00 p.m | Know your Hardware and Software (Introduction to Linux ) | Dr. Roshan Kumar                     |
| <b>II</b>  | <b>04.07.22</b><br>(Monday)    | 5:00 – 7:00 p.m | Database File Formats                                    | Dr. Shailly Anand<br>Dr.Renu Solanki |
| <b>III</b> | <b>05.07.22</b><br>(Tuesday)   | 5:00 – 7:00 p.m | Blast and Its Types                                      | Dr. Jasvinder Kaur                   |
| <b>IV</b>  | <b>06.07.22</b><br>(Wednesday) | 5:00 – 7:00 p.m | DNA Sequencing   | Dr Shailly Anand                     |
| <b>V</b>   | <b>07.07.22</b><br>(Thursday)  | 5:00 – 7:00 p.m | Genome Assembly  | Dr. Utkarsh Sood                     |
|            | <b>08.07.22</b><br>(Friday)    | 5:00 – 8:00 p.m | <b>Assessment</b>  |                                      |

### Module II- Genomics

| Session    | Date                         | Time            | Teaching Modules/<br>Hand-on Sessions | Faculty                |
|------------|------------------------------|-----------------|---------------------------------------|------------------------|
| <b>VI</b>  | <b>9.07.22</b><br>(Saturday) | 5:00 – 7:00 p.m | Genome Validation and Annotations     | Dr. Gauri Garg Dhingra |
| <b>VII</b> | <b>10.07.22</b><br>(Sunday)  | 5:00 – 7:00 p.m | Alignment and Phylogeny               | Dr. Roshan Kumar       |

|                |                                |                    |  |                         |
|----------------|--------------------------------|--------------------|--|-------------------------|
|                |                                |                    |  |                         |
| <b>VIII</b>    | <b>11.07.22</b><br>(Monday)    | 5:00 –<br>7:00 p.m | Functional Analysis                            | Dr. Helianthous Verma   |
| <b>IX</b>      | <b>12.07.22</b><br>(Tuesday)   | 5:00 –<br>7:00 p.m | Protein Structure Prediction,<br>Modelling     | Dr. Charu Dogra Rawat   |
|                | <b>13.07.22</b><br>(Wednesday) | 5:00 –<br>8:00 p.m | <b>Assessment</b>                              |                         |
| <b>Session</b> | <b>Date</b>                    | <b>Time</b>        | <b>Teaching Modules/<br/>Hand-on Sessions</b>  | <b>Faculty</b>          |
| <b>X</b>       | <b>14.07.22</b><br>(Thursday)  | 5:00 –<br>7:00 p.m | Metagenomics: Amplicon and<br>whole metagenome | Dr. Roshan Kumar        |
| <b>XI</b>      | <b>15.07.22</b><br>(Friday)    | 5:00 –<br>7:00 p.m | Metagenome diversity analysis<br>by Kaiju      | Dr. Utkarsh Sood        |
| <b>XII</b>     | <b>16.07.22</b><br>(Saturday)  | 5:00 –<br>7:00 p.m | MG-RAST  | Dr. Princy Hira         |
|                | <b>17.07.22</b><br>(Sunday)    | 5:00 –<br>8:00 p.m | <b>Assessment</b>                              |                         |
|                | <b>18.07.22</b><br>(Monday)    | 5:00 –<br>7:00 p.m | <b>Doubt Session</b>                           | Whatsapp/Telegram group |
|                | <b>19.07.22</b><br>(Tuesday)   | 5:00 –<br>7:00 p.m | <b>VALEDICTORY &amp;<br/>FEEDBACK</b>          | All                     |



# Certificate Of Participation

*This is presented to*

, Kirori Mal College, University of Delhi

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**For Successful Completing Certificate Course In Metagenomics & Bioinformatics**  
*Organized By Internal Quality Assurance Committee (IQAC), Kirori Mal College, UoD, India*  
*In Association With Phixgen Pvt. Ltd., Gurugram, India from July 1-July 19, 2022.*

*V. Chauhan.*

Prof. Vibha Singh Chauhan,  
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*Gauri Garg*

Dr. Gauri Garg Dhingra,  
Program Co-Ordinator,  
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# Certificate Of Participation

*This is presented to*

**Vasundhara Sharma**, Kirori Mal College, University of Delhi

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# Certificate Of Participation

*This is presented to*

**Abhilash Kumar**, University of Delhi

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*Amal. A, Kirori Mal college, University of Delhi*

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# Certificate Of Participation

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**Ananya**, Dyal Singh College, University of Delhi

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**Anusree A R**, Kerala Agricultural University

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**Atika**, Ramjas College, University of Delhi

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## Report

### **Certificate Course on Metagenomics & Bioinformatics organized by Internal Quality Assurance Committee (IQAC), Kirori Mal College, UoD, India in association With Phixgen Pvt. Ltd., Gurugram, India**

**(1<sup>st</sup> July 2022- 19<sup>th</sup> July 2022)**

The inaugural session of the certificate course opened with a welcoming note and an introduction to IQAC and Phixgen pvt Ltd. by the program IQAC coordinator and Program Co-Ordinator, Dr. M. Ramanand Singh and Dr. Gauri Garg Dhingra. Prof. Kalpana Bharara encouraged the audience and gave introductory address. The keynote speaker of the session, Prof. Rup Lal was introduced by Prof. Rakesh Kumar Pandey. Prof. Rup Lal explained the importance of computational biology in recent scenario by delivering a talk on “Role of Computational Biology in Microbial Ecology” The inauguration session was followed by a series of lectures and handson sessions sessions as follows:

#### **Module I- Introduction to Computational biology**

##### **Session 1- Know your Hardware and Software (Introduction to Linux)**

**Resource Person: Dr. Roshan Kumar, P. G. Department of Zoology, Magadh University, Bodh Gaya**

Dr. Roshan Kumar started the session on ‘Computer platforms for Genomics and bioinformatics’. He introduced the Linux operating systems and the importance of knowing hardware and software to the participants. The hands-on part of this lecture included installing a VMware player and installing ubuntu via virtualization. In the second session, Dr. Kumar discussed the concepts and hand-on exercises related to genome assembly where the participants learned how to assemble raw data using de novo assemblers (ABYSS). Also, assembly statistic parameters to obtain an optimal genome assembly were explained like k-mer, N50, L50, coverage, etc.

##### **Session 2- Database File Formats**

**Resource Person: Dr. Shailly Anand and Dr. Renu Solanki, Deen Dayal Upadhyaya College, University of Delhi.**

Dr. Shailly Anand began the session with a brief introduction to databases, their importance in the present context of big data, and the general architecture of any database. She explained with suitable examples how a biological database is a collection of data that is structured, searchable,

updated periodically, and cross-referenced. A database helps to store, maintain, annotate and curate the data. She went ahead to elaborate on the importance of databases for storing and communicating large datasets, distributing resources, and making biological data available to scientists in computer-readable form along with ease of access. She then discussed the different basis of classification of biological databases as proposed by various workers. Thereafter, she gave an insight into the available primary and secondary databases and how each is involved in keeping nucleotide and protein sequence and structural data in an organized form. Towards the end, she gave an overview of organism-specific databases such as FlyBase, ZFIN, TAIR, etc but also conducted a hands-on simple exercise on retrieving a protein sequence from a primary database and fetching information in different formats

### **Session 3- Blast and Its Types**

**Resource Person: Dr. Jasvinder Kaur, Gargi College, University of Delhi.**

As BLAST, or the Basic Local Alignment Search Tool, has grown in importance among biologists. Dr. Jasvinder Kaur opened the workshop with a brief practical application of how to use NCBI-BLAST to compare the similarity between two sequences. Along with protein and nucleotide BLAST, rapid retrieval of sequences via NCBI was performed. It was used to find regions of local similarity between these sequences. The program compares nucleotide or protein sequences to sequence databases and calculates the statistical significance of matches. Matrix analysis was used to explain this statistical correlation. The various facets of graphical results were also explained. In-depth explanations of the Maximum Score and e-value components of the BLAST method were presented. The PAM and BLOSUM matrices were then thoroughly described with examples. The discussion of the many BLAST alternatives and their applications concluded the session. Alongside this, the participants' questions were answered.

### **Session 4- DNA Sequencing**

**Resource Person: Dr. Shailly Anand, Deen Dayal Upadhyaya College, University of Delhi.**

Dr. Shailly Anand began the session with a brief introduction to DNA sequencing, its role in any genome sequencing project, and its importance and application in a wide variety of research areas. She then explained how the sequencing method evolved from Maxam and Gilbert's chemical method in 1976 to Sanger Sequencing and way up to New Generation Sequencing technologies. With illustration, she then elaborated on the Chain termination method invented by Sanger and how it was automated to generate an electropherogram. Thereafter, she gave a



detailed account of Pyrosequencing followed by Illumina Sequencing. Alongside she also introduced other sequencing methods including Ion Torrent, SOLiD Sequencing, Helicos, Nanopore Sequencing, and even Single Molecule Real Time (SMRT) Sequencing. In the end, she gave a comparative account of each in terms of read length, cost per base, duration, merits and disadvantages

### **Session 5- Genome Assembly**

**Resource Person: Dr Utkarsh Sood, TERI, New Delhi.**

One of the fundamental problems in bioinformatics is *De novo* genome assembly. Interest in the problem has been renewed in the past decade due to the advent of *next-generation sequencing* (NGS) technologies, which generate large numbers of short (100–400 bp) reads with relative low sequencing error rates. There are three main approaches for *de novo* genome assembly, the greedy strategy, the string overlap graph, and the de Bruijn graph.

The session introduced various types of Genome assemblers like Velvet, Celera, Spades, IDBA, Ray and Abyss. ABySS Assembler was explained in detail. Fastq files were provided for a hands on practice session. The students were taught to operate the software and various parameters for a good assembly were discussed.

### **Module II- Genomics**

#### **Session 6- Genome Validation and Annotations**

**Resource Person: Dr. Gauri Garg Dhingra, Kirori Mal College, University of Delhi,**

Session on “Genome Annotations” dealt with the basics of annotation like structural and functional annotations, levels of annotation and different tools, hands on exercise on RAST (Rapid Annotation using Subsystem Technology) Server and how it provides a high-quality genome annotation for prokaryotes across the whole phylogenetic tree were explained. Once annotation is completed, genomes can be downloaded in a variety of formats or viewed online. The genome annotation provided does include a mapping of genes to subsystems and a metabolic reconstruction. In addition, students were also taught how to predict closest neighbors for the bacterial genome using RAST.

#### **Session 7- Alignment and Phylogeny**

**Resource Person: Dr. Roshan Kumar, P. G. Department of Zoology, Magadh University, Bodh Gaya**

Dr. Roshan explained the concepts of phylogeny and taxonomy. Following that, the students were taught about the genotypic, phenotypic, and chemotaxonomic markers used to classify bacterial species into taxa using a polyphasic approach. The importance and drawbacks of using the 16S rRNA gene sequence to create phylogenetic trees were next discussed. The benefits of employing genomic-based approaches to analyze the 16S rRNA gene sequence were then described, including two types of Phylogenomic methods: whole genome and core genome. Following that, approaches based on the entire genome, such as Average Nucleotide Identity (ANI), Average Amino acid Identity (AAI), and Genome to Genome Distance Calculator (GGDC), were discussed. These analyses were demonstrated to the students using previously saved data, followed by the creation of a heat map and dual dendrogram using the multi-experiment viewer (MeV). After that, students were asked to raise any questions they had and to practice on their own systems.

### **Session 8- Functional Analysis**

**Resource Person: Dr. Helianthous Verma, Ramjas College, University of Delhi.**

**Functional genomics** is the study of how genes and intergenic regions of the genome contribute to different biological processes. A researcher in this field typically studies genes or regions on a “genome-wide” scale (i.e. all or multiple genes/regions at the same time), with the hope of narrowing them down to a list of candidate genes or regions to analyse in more detail. Dr Helianthous introduced the audience to various softwares with which the functional genomics can be done namely Minpath, KASS-KEGG pathway.

### **Session 9- Protein Structure Prediction, Modelling**

**Resource Person: Dr. Charu Dogra Rawat, Ramjas College, University of Delhi.**

The session began by discussing the role of cellular proteins; they perform various functions ranging from DNA replication, responding to stimuli, providing structure to cells and transporting molecules from one location to another. It is highly significant, thus, to understand the relationship between sequence, structure and function of proteins in order to understand the functioning of cells under various conditions. Dr. Rawat elaborated on the procedure of homology modelling for predicting the structure of proteins from their sequences. The method on the homology of these sequences with the sequences of proteins whose structures are known and deposited in protein databanks. The participants learnt about the SWISS-MODEL interface to predict the structure of an example protein sequence. The information provided as the output was analysed. Further, structure assessment and validation methods, for e. g. by analysing the Ramachandran plot of the

obtained structure were also discussed. The obtained structure model was visualized in UCSF Chimera software and some of its features were also discussed.

### **Module III- Meta Genomics**

#### **Session 10- Metagenomics: Amplicon and whole metagenome**

**Resource Person: Dr. Roshan Kumar, P. G. Department of Zoology, Magadh University, Bodh Gaya**

Dr. Roshan Kumar, Assistant Professor, Magadh University gave a comprehensive overview of the "Microbial Ecology and Metagenomics". During his presentation, he described metagenomics' timeline and milestones. This was followed by a detailed description of developing gnotobiotic chicken, preparing the culture library using culturomics, and then conducting colonization experiments using gnotobiotic chicken. At the end, he cited examples of his work to explain the details.

#### **Session 11- Metagenome diversity analysis by Kaiju**

**Resource Person: Dr Utkarsh Sood, TERI, New Delhi.**

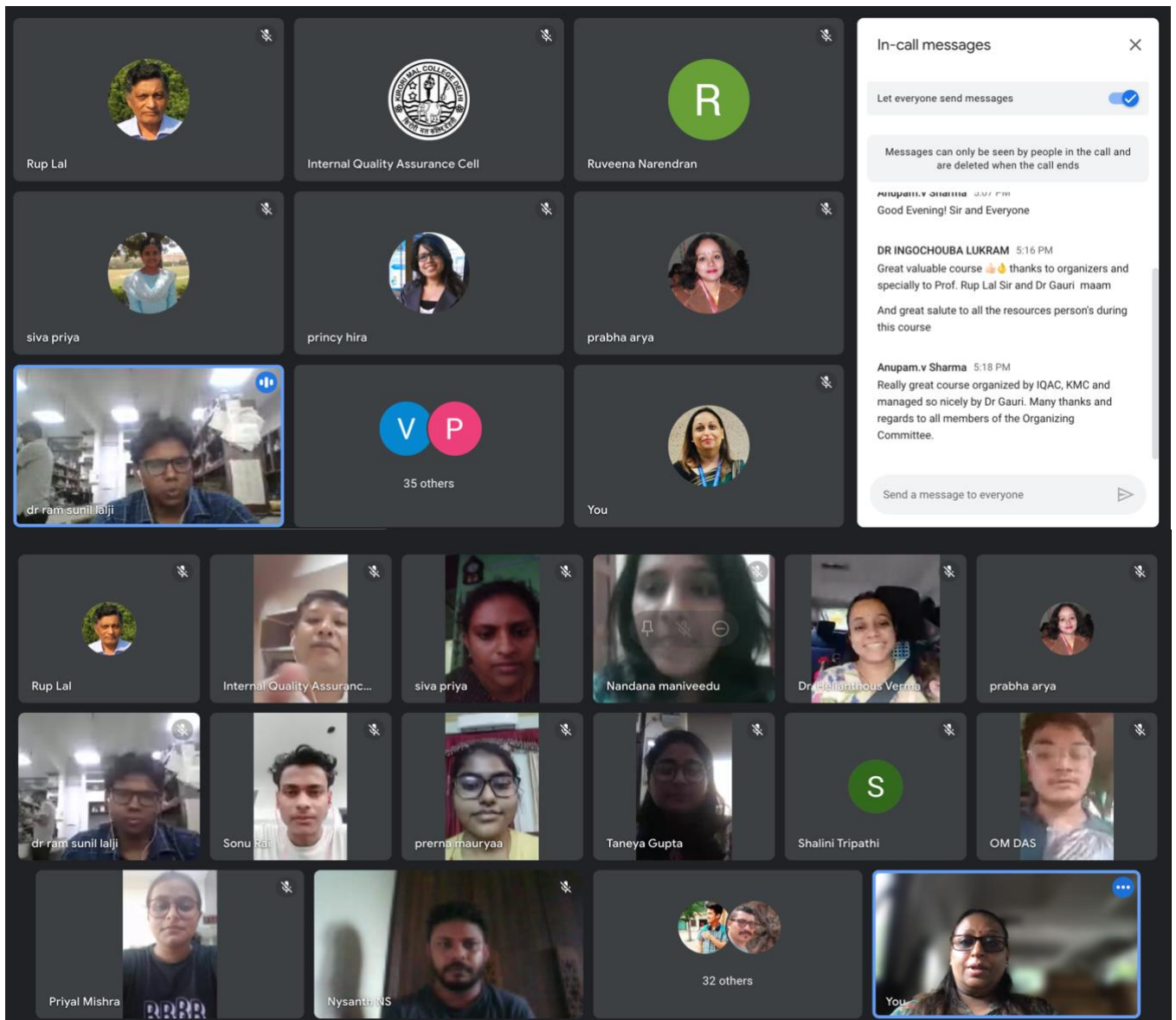
Dr. Utkarsh Sood explained the use of Kaiju as a tool for the taxonomic classification of high-throughput sequencing reads, e.g., Illumina or Roche/454, from whole-genome sequencing of metagenomic DNA. In this program, reads are directly assigned to taxa using the NCBI taxonomy and a reference database of protein sequences from microbial and viral genomes. Kaiju translates metagenomic sequencing reads into the six possible reading frames and searches for maximum exact matches (MEMs) of amino acid sequences in a given database of annotated proteins from microbial reference genome. Participants were shown the illustrations which were obtained by the software and explained how one can use the data to reproduce the figures.

#### **Session 12- MG-RAST**

**Resource Person: Dr. Princy Hira, Maitreyi College, University of Delhi.** Dr. Princy Hira introduced the The MG-RAST pipeline which performs quality control, protein prediction, clustering and similarity-based annotation on nucleic acid sequence datasets using a number of bioinformatics tools. MG-RAST performs a protein similarity search between predicted proteins and database proteins (for shotgun) and a nucleic-acid similarity search (for reads similar to 16S and 18S sequences). MG-RAST presents the annotations via the tools on the analysis page which

prepare, compare, display, and export the results on the website. A hand-on practice was also done with the provided metagenomic assembly data.

Members of IQAC coordinated various sessions. Assessments were taken on google forms after each module was completed. Also, a doubt session was kept to clear the queries of the participants. Feedback form was circulated among the participants. Valedictory session was done on the last day of the program, 19<sup>th</sup> July 2022. A review of feedback received was done. It was reported that all the participants benefitted from the course. The participant appreciated the choice and delivery of course content and the organisation of the programme. The participants also mentioned their eagerness to join an advanced course on the same discipline. Dr. Ram Sunil Lalji summarized the



sessions. The session ended with a vote of thanks to all the resource persons, and participants by the IQAC Co-Ordinator, Dr. M. Ramanand Singh.

## Google Meet Attendance Tracking Report

Meeting Name: wed-nfjv-ezn

Date: 5-Jul-2022



Download as pdf

Attendance Tracking Started At : 17:20:17

Attendance Tracking Stopped At : 17:20:19

Total Number of people Attended : 47

Total Meeting Duration : 0 min 1s

### Detailed Attendance Report

[Apply filter](#)

Number Of People Attended More Than 65% Of Meeting: 47

Number Of People Attended Less Than 65% Of Meeting: 0

| S.No | Participant Name | Attended Duration | Attended Percentage |
|------|------------------|-------------------|---------------------|
| 1    | 16_ATIKA         | 0 min 1s          | 100%                |
| 2    | 174_ANSHU RANJAN | 0 min 1s          | 100%                |
| 3    | 88_KOSHIKA       | 0 min 1s          | 100%                |
| 4    | ABHILASH KUMAR   | 0 min 1s          | 100%                |
| 5    | ADITI JAIN       | 0 min 1s          | 100%                |
| 6    | AMAL. A          | 0 min 1s          | 100%                |
| 7    | ANANYA           | 0 min 1s          | 100%                |
| 8    | ANIRUDDHA GHOSH  | 0 min 1s          | 100%                |
| 9    | ANISH TAMANG     | 0 min 1s          | 100%                |
| 10   | ANUPAM.V SHARMA  | 0 min 1s          | 100%                |
| 11   | ANUSREE A R      | 0 min 1s          | 100%                |
| 12   | ATISSHYA KAPOOR  | 0 min 1s          | 100%                |
| 13   | AYUSH LEPCHA     | 0 min 1s          | 100%                |
| 14   | AYUSHI SHARMA    | 0 min 1s          | 100%                |
| 15   | DHANYA KC        | 0 min 1s          | 100%                |
| 16   | DOLLY            | 0 min 1s          | 100%                |

| S.No | Participant Name              | Attended Duration | Attended Percentage |
|------|-------------------------------|-------------------|---------------------|
| 17   | DR INGOCHOUBA LUKRAM          | 0 min 1s          | 100%                |
| 18   | GAURI GARG                    | 0 min 1s          | 100%                |
| 19   | HARSHITA RAJ                  | 0 min 1s          | 100%                |
| 20   | JASVINDER KAUR                | 0 min 1s          | 100%                |
| 21   | JYOTI SHARMA                  | 0 min 1s          | 100%                |
| 22   | MEHAK DAS                     | 0 min 1s          | 100%                |
| 23   | NANDANA MANIVEEDU             | 0 min 1s          | 100%                |
| 24   | NEHA BALIYAN                  | 0 min 1s          | 100%                |
| 25   | NYSANTH NS                    | 0 min 1s          | 100%                |
| 26   | OM DAS                        | 0 min 1s          | 100%                |
| 27   | PRABHA ARYA                   | 0 min 1s          | 100%                |
| 28   | PRATIKSHA MAURYAA             | 0 min 1s          | 100%                |
| 29   | PRERNA MAURYAA                | 0 min 1s          | 100%                |
| 30   | PRIYAL MISHRA                 | 0 min 1s          | 100%                |
| 31   | RAJESHWARAN B, COA, VELLAYANI | 0 min 1s          | 100%                |
| 32   | RAMRAJ SINGH NAYAK            | 0 min 1s          | 100%                |
| 33   | RUVEENA NARENDRAN             | 0 min 1s          | 100%                |
| 34   | SACHIN KHANDELWAL             | 0 min 1s          | 100%                |
| 35   | SANDEEP KUMAR                 | 0 min 1s          | 100%                |
| 36   | SANKALP KAUSHAL               | 0 min 1s          | 100%                |
| 37   | SHALINI TRIPATHI              | 0 min 1s          | 100%                |
| 38   | SHREE NAVEENA                 | 0 min 1s          | 100%                |
| 39   | SHRUTI KAPOOR                 | 0 min 1s          | 100%                |
| 40   | SIVA PRIYA                    | 0 min 1s          | 100%                |
| 41   | SNEH SAGAR                    | 0 min 1s          | 100%                |
| 42   | SONU RAI                      | 0 min 1s          | 100%                |
| 43   | SRISHTI DHIMAN                | 0 min 1s          | 100%                |

| S.No | Participant Name  | Attended Duration | Attended Percentage |
|------|-------------------|-------------------|---------------------|
| 44   | SWATI BAJAJ       | 0 min 1s          | 100%                |
| 45   | TANEYA GUPTA      | 0 min 1s          | 100%                |
| 46   | VASUNDHARA SHARMA | 0 min 1s          | 100%                |
| 47   | VIKASH RAJ        | 0 min 1s          | 100%                |



## Google Meet Attendance Tracking Report

Meeting Name: rau-qkbb-asn

Date: 6-Jul-2022



Download as pdf

Attendance Tracking Started At : 17:22:53

Attendance Tracking Stopped At : 17:23:01

Total Number of people Attended : 55

Total Meeting Duration : 0 min 5s

### Detailed Attendance Report

[Apply filter](#)

Number Of People Attended More Than 65% Of Meeting: 55

Number Of People Attended Less Than 65% Of Meeting: 0

| S.No | Participant Name | Attended Duration | Attended Percentage |
|------|------------------|-------------------|---------------------|
| 1    | 16_ATIKA         | 0 min 5s          | 100%                |
| 2    | 174_ANSHU RANJAN | 0 min 5s          | 100%                |
| 3    | 49_PARUL         | 0 min 5s          | 100%                |
| 4    | 88_KOSHIKA       | 0 min 5s          | 100%                |
| 5    | ABHILASH KUMAR   | 0 min 5s          | 100%                |
| 6    | ADITI JAIN       | 0 min 5s          | 100%                |
| 7    | AMAL. A          | 0 min 5s          | 100%                |
| 8    | ANANYA           | 0 min 5s          | 100%                |
| 9    | ANIRUDDHA GHOSH  | 0 min 5s          | 100%                |
| 10   | ANISH TAMANG     | 0 min 5s          | 100%                |
| 11   | ANUPAM.V SHARMA  | 0 min 5s          | 100%                |
| 12   | ANUSREE A R      | 0 min 5s          | 100%                |
| 13   | ATISSHYA KAPOOR  | 0 min 5s          | 100%                |
| 14   | AYUSH LEPCHA     | 0 min 5s          | 100%                |
| 15   | AYUSH THAKUR     | 0 min 5s          | 100%                |
| 16   | AYUSHI SHARMA    | 0 min 5s          | 100%                |

| S.No | Participant Name              | Attended Duration | Attended Percentage |
|------|-------------------------------|-------------------|---------------------|
| 17   | BLACKTHUNDER 434              | 0 min 5s          | 100%                |
| 18   | DASARI MEGHANA                | 0 min 5s          | 100%                |
| 19   | DHANYA KC                     | 0 min 5s          | 100%                |
| 20   | DOLLY                         | 0 min 5s          | 100%                |
| 21   | GAURI GARG                    | 0 min 5s          | 100%                |
| 22   | HARSHITA RAJ                  | 0 min 5s          | 100%                |
| 23   | JYOTI SHARMA                  | 0 min 5s          | 100%                |
| 24   | KHUSRO MOIN                   | 0 min 5s          | 100%                |
| 25   | KUMAR SATHISH                 | 0 min 5s          | 100%                |
| 26   | NANDANA MANIVEEDU             | 0 min 5s          | 100%                |
| 27   | NEHA BALIYAN                  | 0 min 5s          | 100%                |
| 28   | NYSANTH NS                    | 0 min 5s          | 100%                |
| 29   | OM DAS                        | 0 min 5s          | 100%                |
| 30   | PRABHA ARYA                   | 0 min 5s          | 100%                |
| 31   | PRATIKSHA MAURYAA             | 0 min 5s          | 100%                |
| 32   | PRERNA MAURYAA                | 0 min 5s          | 100%                |
| 33   | PRIYAL MISHRA                 | 0 min 5s          | 100%                |
| 34   | RAJESHWARAN B, COA, VELLAYANI | 0 min 5s          | 100%                |
| 35   | RAMRAJ SINGH NAYAK            | 0 min 5s          | 100%                |
| 36   | RANDHIR SINGH                 | 0 min 5s          | 100%                |
| 37   | RAVIA KAUR                    | 0 min 5s          | 100%                |
| 38   | ROUSHAN KUMAR                 | 0 min 5s          | 100%                |
| 39   | RUVEENA NARENDRAN             | 0 min 5s          | 100%                |
| 40   | SACHIN KHANDELWAL             | 0 min 5s          | 100%                |
| 41   | SANDEEP KUMAR                 | 0 min 5s          | 100%                |
| 42   | SANJEEV SHARMA                | 0 min 5s          | 100%                |
| 43   | SANKALP KAUSHAL               | 0 min 5s          | 100%                |

| S.No | Participant Name  | Attended Duration | Attended Percentage |
|------|-------------------|-------------------|---------------------|
| 44   | SHAILLY ANAND     | 0 min 5s          | 100%                |
| 45   | SHALINI TRIPATHI  | 0 min 5s          | 100%                |
| 46   | SHREE NAVEENA     | 0 min 5s          | 100%                |
| 47   | SHRUTI KAPOOR     | 0 min 5s          | 100%                |
| 48   | SNEH SAGAR        | 0 min 5s          | 100%                |
| 49   | SONU RAI          | 0 min 5s          | 100%                |
| 50   | SRISHTI DHIMAN    | 0 min 5s          | 100%                |
| 51   | SWASTI JAIN       | 0 min 5s          | 100%                |
| 52   | SWATI BAJAJ       | 0 min 5s          | 100%                |
| 53   | TANEYA GUPTA      | 0 min 5s          | 100%                |
| 54   | VASUNDHARA SHARMA | 0 min 5s          | 100%                |
| 55   | VIKASH RAJ        | 0 min 5s          | 100%                |

## Google Meet Attendance Tracking Report

Meeting Name: cbv-mvec-dii

Date: 7-Jul-2022



Download as pdf

Attendance Tracking Started At : 18:02:19

Attendance Tracking Stopped At : 18:02:29

Total Number of people Attended : 44

Total Meeting Duration : 0 min 7s

### Detailed Attendance Report

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Number Of People Attended More Than 65% Of Meeting: 44

Number Of People Attended Less Than 65% Of Meeting: 0

| S.No | Participant Name | Attended Duration | Attended Percentage |
|------|------------------|-------------------|---------------------|
| 1    | 16_ATIKA         | 0 min 7s          | 100%                |
| 2    | 49_PARUL         | 0 min 7s          | 100%                |
| 3    | 88_KOSHIKA       | 0 min 7s          | 100%                |
| 4    | ABHILASH KUMAR   | 0 min 7s          | 100%                |
| 5    | ADITI JAIN       | 0 min 7s          | 100%                |
| 6    | AMAL. A          | 0 min 7s          | 100%                |
| 7    | ANIRUDDHA GHOSH  | 0 min 7s          | 100%                |
| 8    | ANISH TAMANG     | 0 min 7s          | 100%                |
| 9    | ANUSREE A R      | 0 min 7s          | 100%                |
| 10   | ATISSHYA KAPOOR  | 0 min 7s          | 100%                |
| 11   | AYUSH LEPCHA     | 0 min 7s          | 100%                |
| 12   | AYUSHI SHARMA    | 0 min 7s          | 100%                |
| 13   | DASARI MEGHANA   | 0 min 7s          | 100%                |
| 14   | DHANYA KC        | 0 min 7s          | 100%                |
| 15   | DOLLY            | 0 min 7s          | 100%                |
| 16   | GAURI GARG       | 0 min 7s          | 100%                |

| S.No | Participant Name              | Attended Duration | Attended Percentage |
|------|-------------------------------|-------------------|---------------------|
| 17   | HARSHITA RAJ                  | 0 min 7s          | 100%                |
| 18   | JYOTI SHARMA                  | 0 min 7s          | 100%                |
| 19   | MEHAK DAS                     | 0 min 7s          | 100%                |
| 20   | NEHA BALIYAN                  | 0 min 7s          | 100%                |
| 21   | NYSANTH NS                    | 0 min 7s          | 100%                |
| 22   | OM DAS                        | 0 min 7s          | 100%                |
| 23   | PRABHA ARYA                   | 0 min 7s          | 100%                |
| 24   | PRATIKA MAURYAA               | 0 min 7s          | 100%                |
| 25   | PRERNA MAURYAA                | 0 min 7s          | 100%                |
| 26   | PRIYAL MISHRA                 | 0 min 7s          | 100%                |
| 27   | RAJESHWARAN B, COA, VELLAYANI | 0 min 7s          | 100%                |
| 28   | RAMRAJ SINGH NAYAK            | 0 min 7s          | 100%                |
| 29   | ROUSHAN KUMAR                 | 0 min 7s          | 100%                |
| 30   | RUVEENA NARENDRAN             | 0 min 7s          | 100%                |
| 31   | SACHIN KHANDELWAL             | 0 min 7s          | 100%                |
| 32   | SANDEEP KUMAR                 | 0 min 7s          | 100%                |
| 33   | SANKALP KAUSHAL               | 0 min 7s          | 100%                |
| 34   | SHALINI TRIPATHI              | 0 min 7s          | 100%                |
| 35   | SHREE NAVEENA                 | 0 min 7s          | 100%                |
| 36   | SHRUTI KAPOOR                 | 0 min 7s          | 100%                |
| 37   | SIVA PRIYA                    | 0 min 7s          | 100%                |
| 38   | SNEH SAGAR                    | 0 min 7s          | 100%                |
| 39   | SONU RAI                      | 0 min 7s          | 100%                |
| 40   | SRISHTI DHIMAN                | 0 min 7s          | 100%                |
| 41   | SWASTI JAIN                   | 0 min 7s          | 100%                |
| 42   | TANEYA GUPTA                  | 0 min 7s          | 100%                |
| 43   | UTKARSH SOOD                  | 0 min 7s          | 100%                |

| S.No | Participant Name | Attended Duration | Attended Percentage |
|------|------------------|-------------------|---------------------|
| 44   | VIKASH RAJ       | 0 min 7s          | 100%                |

## Google Meet Attendance Tracking Report

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Meeting Name: xsj-bykx-zyr

Date: 9-Jul-2022

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Attendance Tracking Started At : 17:08:48

Attendance Tracking Stopped At : 17:08:49

Total Number of people Attended : 0

Total Meeting Duration : 0 min 0s

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### Detailed Attendance Report

[Apply filter](#)

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Number Of People Attended More Than 65% Of Meeting: 0

Number Of People Attended Less Than 65% Of Meeting: 0

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| S.No | Participant Name | Attended Duration | Attended Percentage |
|------|------------------|-------------------|---------------------|
|------|------------------|-------------------|---------------------|





## Google Meet Attendance Tracking Report

Meeting Name: dna-fhoz-nix

Date: 10-Jul-2022



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Attendance Tracking Started At : 17:23:18

Attendance Tracking Stopped At : 17:23:23

Total Number of people Attended : 44

Total Meeting Duration : 0 min 3s

### Detailed Attendance Report

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Number Of People Attended More Than 65% Of Meeting: 44

Number Of People Attended Less Than 65% Of Meeting: 0

| S.No | Participant Name | Attended Duration | Attended Percentage |
|------|------------------|-------------------|---------------------|
| 1    | 16_ATIKA         | 0 min 3s          | 100%                |
| 2    | 49_PARUL         | 0 min 3s          | 100%                |
| 3    | 88_KOSHIKA       | 0 min 3s          | 100%                |
| 4    | ABHILASH KUMAR   | 0 min 3s          | 100%                |
| 5    | ADITI JAIN       | 0 min 3s          | 100%                |
| 6    | AMAL. A          | 0 min 3s          | 100%                |
| 7    | ANANYA           | 0 min 3s          | 100%                |
| 8    | ANIRUDDHA GHOSH  | 0 min 3s          | 100%                |
| 9    | ANUPAM.V SHARMA  | 0 min 3s          | 100%                |
| 10   | ATISSHYA KAPOOR  | 0 min 3s          | 100%                |
| 11   | AYUSH LEPCHA     | 0 min 3s          | 100%                |
| 12   | AYUSHI SHARMA    | 0 min 3s          | 100%                |
| 13   | DASARI MEGHANA   | 0 min 3s          | 100%                |
| 14   | DHANYA KC        | 0 min 3s          | 100%                |
| 15   | DOLLY            | 0 min 3s          | 100%                |
| 16   | GAURI GARG       | 0 min 3s          | 100%                |

| S.No | Participant Name              | Attended Duration | Attended Percentage |
|------|-------------------------------|-------------------|---------------------|
| 17   | HARSHITA RAJ                  | 0 min 3s          | 100%                |
| 18   | JYOTI SHARMA                  | 0 min 3s          | 100%                |
| 19   | KUMAR SATHISH                 | 0 min 3s          | 100%                |
| 20   | NANDANA MANIVEEDU             | 0 min 3s          | 100%                |
| 21   | NEHA BALIYAN                  | 0 min 3s          | 100%                |
| 22   | NYSANTH NS                    | 0 min 3s          | 100%                |
| 23   | OM DAS                        | 0 min 3s          | 100%                |
| 24   | PRABHA ARYA                   | 0 min 3s          | 100%                |
| 25   | PRATIKSHA MAURYAA             | 0 min 3s          | 100%                |
| 26   | PRERNA MAURYAA                | 0 min 3s          | 100%                |
| 27   | PRIYAL MISHRA                 | 0 min 3s          | 100%                |
| 28   | RAJESHWARAN B, COA, VELLAYANI | 0 min 3s          | 100%                |
| 29   | RANDHIR SINGH                 | 0 min 3s          | 100%                |
| 30   | ROSHAN KUMAR                  | 0 min 3s          | 100%                |
| 31   | ROUSHAN KUMAR                 | 0 min 3s          | 100%                |
| 32   | RUVEENA NARENDRAN             | 0 min 3s          | 100%                |
| 33   | SACHIN KHANDELWAL             | 0 min 3s          | 100%                |
| 34   | SANDEEP KUMAR                 | 0 min 3s          | 100%                |
| 35   | SANKALP KAUSHAL               | 0 min 3s          | 100%                |
| 36   | SHALINI TRIPATHI              | 0 min 3s          | 100%                |
| 37   | SHREE NAVEENA                 | 0 min 3s          | 100%                |
| 38   | SHRUTI KAPOOR                 | 0 min 3s          | 100%                |
| 39   | SIVA PRIYA                    | 0 min 3s          | 100%                |
| 40   | SNEH SAGAR                    | 0 min 3s          | 100%                |
| 41   | SONU RAI                      | 0 min 3s          | 100%                |
| 42   | SRISHTI DHIMAN                | 0 min 3s          | 100%                |
| 43   | SWASTI JAIN                   | 0 min 3s          | 100%                |

| S.No | Participant Name | Attended Duration | Attended Percentage |
|------|------------------|-------------------|---------------------|
| 44   | VIKASH RAJ       | 0 min 3s          | 100%                |

## Google Meet Attendance Tracking Report

Meeting Name: krr-yfva-vyf

Date: 12-Jul-2022



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Attendance Tracking Started At : 17:08:38

Attendance Tracking Stopped At : 17:08:44

Total Number of people Attended : 66

Total Meeting Duration : 0 min 5s

### Detailed Attendance Report

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Number Of People Attended More Than 65% Of Meeting: 66

Number Of People Attended Less Than 65% Of Meeting: 0

| S.No | Participant Name         | Attended Duration | Attended Percentage |
|------|--------------------------|-------------------|---------------------|
| 1    | 49_PARUL                 | 0 min 5s          | 100%                |
| 2    | 88_KOSHIKA               | 0 min 5s          | 100%                |
| 3    | ABHILASH KUMAR           | 0 min 5s          | 100%                |
| 4    | ADITI JAIN               | 0 min 5s          | 100%                |
| 5    | AMLDIPPU@GMAIL.COM       | 0 min 5s          | 100%                |
| 6    | ANANYA                   | 0 min 5s          | 100%                |
| 7    | ANIRUDDHA GHOSH          | 0 min 5s          | 100%                |
| 8    | ANISH78SANG@GMAIL.COM    | 0 min 5s          | 100%                |
| 9    | ANSHURANJAN830@GMAIL.COM | 0 min 5s          | 100%                |
| 10   | ANUPAM.V SHARMA          | 0 min 5s          | 100%                |
| 11   | ANUSREEANIZHAM@GMAIL.COM | 0 min 5s          | 100%                |
| 12   | AT13903@GMAIL.COM        | 0 min 5s          | 100%                |
| 13   | ATIKADATTEN@GMAIL.COM    | 0 min 5s          | 100%                |
| 14   | ATISSHYA KAPOOR          | 0 min 5s          | 100%                |
| 15   | AYUSH LEPCHA             | 0 min 5s          | 100%                |
| 16   | AYUSHI SHARMA            | 0 min 5s          | 100%                |

| S.No | Participant Name                       | Attended Duration | Attended Percentage |
|------|--|-------------------|---------------------|
| 17   | CHARU DOGRA                            | 0 min 5s          | 100%                |
| 18   | DASARI MEGHANA                         | 0 min 5s          | 100%                |
| 19   | DHANYA KC                              | 0 min 5s          | 100%                |
| 20   | DOLLY                                  | 0 min 5s          | 100%                |
| 21   | DR INGOCHOUBA LUKRAM                   | 0 min 5s          | 100%                |
| 22   | FLABBERGASTEDAPPLE@GMAIL.COM           | 0 min 5s          | 100%                |
| 23   | GAURI GARG                             | 0 min 5s          | 100%                |
| 24   | HARSHITA.RAJ1809@GMAIL.COM             | 0 min 5s          | 100%                |
| 25   | JANGRAANSHU123@GMAIL.COM               | 0 min 5s          | 100%                |
| 26   | JASVINDER1511@GMAIL.COM                | 0 min 5s          | 100%                |
| 27   | JYOTI SHARMA                           | 0 min 5s          | 100%                |
| 28   | KHANNA.ANOUSHKA225@GMAIL.COM           | 0 min 5s          | 100%                |
| 29   | KUMARCRS004@GMAIL.COM                  | 0 min 5s          | 100%                |
| 30   | L9818644728@GMAIL.COM                  | 0 min 5s          | 100%                |
| 31   | MANYAAMEHTA07@GMAIL.COM                | 0 min 5s          | 100%                |
| 32   | MEHAKDAS02@GMAIL.COM                   | 0 min 5s          | 100%                |
| 33   | MICROMURUGAN14@GMAIL.COM               | 0 min 5s          | 100%                |
| 34   | NANDANA MANIVEEDU                      | 0 min 5s          | 100%                |
| 35   | NEHA BALIYAN                           | 0 min 5s          | 100%                |
| 36   | NYSANTH NS                             | 0 min 5s          | 100%                |
| 37   | OM DAS                                 | 0 min 5s          | 100%                |
| 38   | PARYA@DB.DU.AC.IN                      | 0 min 5s          | 100%                |
| 39   | PRATIKSHA MAURYAA                      | 0 min 5s          | 100%                |
| 40   | PRERNA MAURYAA                         | 0 min 5s          | 100%                |
| 41   | PRIYAL MISHRA                          | 0 min 5s          | 100%                |
| 42   | RAJESHWARAN-2020-21-017@STUDENT.KAU.IN | 0 min 5s          | 100%                |
| 43   | RAMRAJ SINGH NAYAK                     | 0 min 5s          | 100%                |

| S.No | Participant Name             | Attended Duration | Attended Percentage |
|------|------------------------------|-------------------|---------------------|
| 44   | RANDHIRSJOSAN@GMAIL.COM      | 0 min 5s          | 100%                |
| 45   | RAVIA KAUR                   | 0 min 5s          | 100%                |
| 46   | ROSHANZHC@GMAIL.COM          | 0 min 5s          | 100%                |
| 47   | ROUSHAN KUMAR                | 0 min 5s          | 100%                |
| 48   | RUVEENA NARENDRAN            | 0 min 5s          | 100%                |
| 49   | SACHIN KHANDELWAL            | 0 min 5s          | 100%                |
| 50   | SANDEEP KUMAR                | 0 min 5s          | 100%                |
| 51   | SANJEEV SHARMA               | 0 min 5s          | 100%                |
| 52   | SANKALPKAUSHAL1234@GMAIL.COM | 0 min 5s          | 100%                |
| 53   | SHALINI TRIPATHI             | 0 min 5s          | 100%                |
| 54   | SHREE NAVEENA                | 0 min 5s          | 100%                |
| 55   | SHRUTI KAPOOR                | 0 min 5s          | 100%                |
| 56   | SIVA PRIYA                   | 0 min 5s          | 100%                |
| 57   | SNEH SAGAR                   | 0 min 5s          | 100%                |
| 58   | SONU RAI                     | 0 min 5s          | 100%                |
| 59   | SRISHTI DHIMAN               | 0 min 5s          | 100%                |
| 60   | SWASTI JAIN                  | 0 min 5s          | 100%                |
| 61   | SWATIBAJAJ54@GMAIL.COM       | 0 min 5s          | 100%                |
| 62   | TANEYA GUPTA                 | 0 min 5s          | 100%                |
| 63   | UTKARSH.SOOD@GMAIL.COM       | 0 min 5s          | 100%                |
| 64   | VASUNDHARA SHARMA            | 0 min 5s          | 100%                |
| 65   | VIDITZAINITH@GMAIL.COM       | 0 min 5s          | 100%                |
| 66   | VIKASH RAJ                   | 0 min 5s          | 100%                |

## Google Meet Attendance Tracking Report

Meeting Name: vhe-hriw-jbb

Date: 14-Jul-2022



Download as pdf

Attendance Tracking Started At : 17:11:43

Attendance Tracking Stopped At : 17:11:53

Total Number of people Attended : 67

Total Meeting Duration : 0 min 9s

### Detailed Attendance Report

[Apply filter](#)

Number Of People Attended More Than 65% Of Meeting: 65

Number Of People Attended Less Than 65% Of Meeting: 2

| S.No | Participant Name         | Attended Duration | Attended Percentage |
|------|--------------------------|-------------------|---------------------|
| 1    | 88_KOSHIKA               | 0 min 9s          | 100%                |
| 2    | ABHILASH KUMAR           | 0 min 9s          | 100%                |
| 3    | ADITI JAIN               | 0 min 9s          | 100%                |
| 4    | AMAL. A                  | 0 min 9s          | 100%                |
| 5    | ANANYA                   | 0 min 9s          | 100%                |
| 6    | ANIRUDDHA GHOSH          | 0 min 9s          | 100%                |
| 7    | ANISH TAMANG             | 0 min 9s          | 100%                |
| 8    | ANSHURANJAN830@GMAIL.COM | 0 min 9s          | 100%                |
| 9    | ANUPAM.V SHARMA          | 0 min 9s          | 100%                |
| 10   | ANUSREE A R              | 0 min 9s          | 100%                |
| 11   | AT13903@GMAIL.COM        | 0 min 9s          | 100%                |
| 12   | ATIKADATTEN@GMAIL.COM    | 0 min 9s          | 100%                |
| 13   | ATISSHYA KAPOOR          | 0 min 9s          | 100%                |
| 14   | AYUSH LEPCHA             | 0 min 9s          | 100%                |
| 15   | AYUSHI SHARMA            | 0 min 9s          | 100%                |
| 16   | DASARI MEGHANA           | 0 min 9s          | 100%                |

| S.No | Participant Name              | Attended Duration | Attended Percentage |
|------|-------------------------------|-------------------|---------------------|
| 17   | DHANYA KC                     | 0 min 9s          | 100%                |
| 18   | DOLLY                         | 0 min 9s          | 100%                |
| 19   | DR INGOCHOUBA LUKRAM          | 0 min 9s          | 100%                |
| 20   | FLABBERGASTEDAPPLE@GMAIL.COM  | 0 min 9s          | 100%                |
| 21   | GAURI GARG                    | 0 min 9s          | 100%                |
| 22   | HARSHITA RAJ                  | 0 min 9s          | 100%                |
| 23   | JANGRAANSHU123@GMAIL.COM      | 0 min 9s          | 100%                |
| 24   | JASVINDER1511@GMAIL.COM       | 0 min 9s          | 100%                |
| 25   | JYOTI SHARMA                  | 0 min 9s          | 100%                |
| 26   | KHANNA.ANOUSHKA225@GMAIL.COM  | 0 min 9s          | 100%                |
| 27   | KUMARCRS004@GMAIL.COM         | 0 min 9s          | 100%                |
| 28   | L9818644728@GMAIL.COM         | 0 min 9s          | 100%                |
| 29   | MANYAAMEHTA07@GMAIL.COM       | 0 min 9s          | 100%                |
| 30   | MEHAK DAS                     | 0 min 9s          | 100%                |
| 31   | MEHAKDAS02@GMAIL.COM          | 0 min 9s          | 100%                |
| 32   | MICROMURUGAN14@GMAIL.COM      | 0 min 9s          | 100%                |
| 33   | NANDANAMANIVEEDU@GMAIL.COM    | 0 min 9s          | 100%                |
| 34   | NEHA BALIYAN                  | 0 min 9s          | 100%                |
| 35   | NYSANTH NS                    | 0 min 9s          | 100%                |
| 36   | OM DAS                        | 0 min 9s          | 100%                |
| 37   | PARULSWEETU1234@GMAIL.COM     | 0 min 9s          | 100%                |
| 38   | PRABHA ARYA                   | 0 min 9s          | 100%                |
| 39   | PRATIKSHA MAURYAA             | 0 min 9s          | 100%                |
| 40   | PRERNA MAURYAA                | 0 min 9s          | 100%                |
| 41   | PRIYAL MISHRA                 | 0 min 9s          | 100%                |
| 42   | RAJESHWARAN B, COA, VELLAYANI | 0 min 9s          | 100%                |
| 43   | RAMRAJ SINGH NAYAK            | 0 min 9s          | 100%                |



| S.No | Participant Name              | Attended Duration | Attended Percentage |
|------|-------------------------------|-------------------|---------------------|
| 44   | RANDHIRSJOSAN@GMAIL.COM       | 0 min 9s          | 100%                |
| 45   | RAVIA KAUR                    | 0 min 9s          | 100%                |
| 46   | ROSHAN KUMAR                  | 0 min 9s          | 100%                |
| 47   | ROUSHAN KUMAR                 | 0 min 9s          | 100%                |
| 48   | RUVEENA NARENDRAN             | 0 min 9s          | 100%                |
| 49   | SACHIN KHANDELWAL             | 0 min 4s          | 45%                 |
| 50   | SACHINKHANDELWAL882@GMAIL.COM | 0 min 5s          | 56%                 |
| 51   | SANDEEP KUMAR                 | 0 min 9s          | 100%                |
| 52   | SANJEEV SHARMA                | 0 min 9s          | 100%                |
| 53   | SANKALP KAUSHAL               | 0 min 9s          | 100%                |
| 54   | SHALINI TRIPATHI              | 0 min 9s          | 100%                |
| 55   | SHRUTI KAPOOR                 | 0 min 9s          | 100%                |
| 56   | SIVA PRIYA                    | 0 min 9s          | 100%                |
| 57   | SNEH SAGAR                    | 0 min 9s          | 100%                |
| 58   | SONU RAI                      | 0 min 9s          | 100%                |
| 59   | SREENAVEENA@GMAIL.COM         | 0 min 9s          | 100%                |
| 60   | SRISHTI DHIMAN                | 0 min 9s          | 100%                |
| 61   | SWASTI JAIN                   | 0 min 9s          | 100%                |
| 62   | SWATIBAJAJ54@GMAIL.COM        | 0 min 9s          | 100%                |
| 63   | TANEYA GUPTA                  | 0 min 9s          | 100%                |
| 64   | UTKARSH.SOOD@GMAIL.COM        | 0 min 9s          | 100%                |
| 65   | VASUNDHARA SHARMA             | 0 min 9s          | 100%                |
| 66   | VIDITZAINITH@GMAIL.COM        | 0 min 9s          | 100%                |
| 67   | VIKASHRAJ2001K@GMAIL.COM      | 0 min 9s          | 100%                |

## Google Meet Attendance Tracking Report

Meeting Name: vog-scqz-qqb

Date: 14-Jul-2022



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Attendance Tracking Started At : 12:13:42

Attendance Tracking Stopped At : 12:13:47

Total Number of people Attended : 14

Total Meeting Duration : 0 min 5s

### Detailed Attendance Report

[Apply filter](#)

Number Of People Attended More Than 65% Of Meeting: 14

Number Of People Attended Less Than 65% Of Meeting: 0

| S.No | Participant Name   | Attended Duration | Attended Percentage |
|------|--------------------|-------------------|---------------------|
| 1    | ANKITA DUA         | 0 min 5s          | 100%                |
| 2    | DR. PRIYA SINGH    | 0 min 5s          | 100%                |
| 3    | GAURI GARG DHINGRA | 0 min 5s          | 100%                |
| 4    | JASVINDER KAUR     | 0 min 5s          | 100%                |
| 5    | KIRAN BALA         | 0 min 5s          | 100%                |
| 6    | MANSI VERMA        | 0 min 5s          | 100%                |
| 7    | NIRJARA SINGHVI    | 0 min 5s          | 100%                |
| 8    | OM PRAKASH         | 0 min 5s          | 100%                |
| 9    | PRINCY HIRA        | 0 min 5s          | 100%                |
| 10   | PUSHP LATA         | 0 min 5s          | 100%                |
| 11   | RASHMI SHARMA      | 0 min 5s          | 100%                |
| 12   | ROSHAN KUMAR       | 0 min 5s          | 100%                |
| 13   | SHEKHAR NAGAR      | 0 min 5s          | 100%                |
| 14   | SUKANYA LAL        | 0 min 5s          | 100%                |



## Google Meet Attendance Tracking Report

Meeting Name: ntv-skpd-dhx

Date: 15-Jul-2022



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Attendance Tracking Started At : 17:12:17

Attendance Tracking Stopped At : 17:12:23

Total Number of people Attended : 66

Total Meeting Duration : 0 min 3s

### Detailed Attendance Report

[Apply filter](#)

Number Of People Attended More Than 65% Of Meeting: 66

Number Of People Attended Less Than 65% Of Meeting: 0

| S.No | Participant Name          | Attended Duration | Attended Percentage |
|------|---------------------------|-------------------|---------------------|
| 1    | 16_ATIKA                  | 0 min 3s          | 100%                |
| 2    | 2135134@KMC.DU.AC.IN      | 0 min 2s          | 67%                 |
| 3    | 49_PARUL                  | 0 min 3s          | 100%                |
| 4    | 88_KOSHIKA                | 0 min 3s          | 100%                |
| 5    | ABHILASH KUMAR            | 0 min 3s          | 100%                |
| 6    | ADITI JAIN                | 0 min 3s          | 100%                |
| 7    | AMAL. A                   | 0 min 3s          | 100%                |
| 8    | ANANYASINGH1883@GMAIL.COM | 0 min 2s          | 67%                 |
| 9    | ANIRUDDHA GHOSH           | 0 min 3s          | 100%                |
| 10   | ANISH78SANG@GMAIL.COM     | 0 min 2s          | 67%                 |
| 11   | ANSHURANJAN830@GMAIL.COM  | 0 min 2s          | 67%                 |
| 12   | ANUPAM.V SHARMA           | 0 min 3s          | 100%                |
| 13   | ANUSREEANIZHAM@GMAIL.COM  | 0 min 2s          | 67%                 |
| 14   | AT13903@GMAIL.COM         | 0 min 2s          | 67%                 |
| 15   | ATISSHYA KAPOOR           | 0 min 3s          | 100%                |
| 16   | AYUSH LEPCHA              | 0 min 3s          | 100%                |

| S.No | Participant Name                       | Attended Duration | Attended Percentage |
|------|--|-------------------|---------------------|
| 17   | AYUSHI SHARMA                          | 0 min 3s          | 100%                |
| 18   | DASARIMEGHANA2002@GMAIL.COM            | 0 min 2s          | 67%                 |
| 19   | DHANYA KC                              | 0 min 3s          | 100%                |
| 20   | DOLLY                                  | 0 min 3s          | 100%                |
| 21   | FLABBERGASTEDAPPLE@GMAIL.COM           | 0 min 2s          | 67%                 |
| 22   | GAURI GARG                             | 0 min 3s          | 100%                |
| 23   | HARSHITA RAJ                           | 0 min 3s          | 100%                |
| 24   | INGOCHOUBA7@GMAIL.COM                  | 0 min 2s          | 67%                 |
| 25   | JANGRAANSHU123@GMAIL.COM               | 0 min 2s          | 67%                 |
| 26   | JASVINDER1511@GMAIL.COM                | 0 min 2s          | 67%                 |
| 27   | JYOTI SHARMA                           | 0 min 3s          | 100%                |
| 28   | KHANNA.ANOUSHKA225@GMAIL.COM           | 0 min 2s          | 67%                 |
| 29   | KUMAR SATHISH                          | 0 min 3s          | 100%                |
| 30   | L9818644728@GMAIL.COM                  | 0 min 2s          | 67%                 |
| 31   | MANYAAMEHTA07@GMAIL.COM                | 0 min 2s          | 67%                 |
| 32   | MEHAK DAS                              | 0 min 3s          | 100%                |
| 33   | MEHAKDAS02@GMAIL.COM                   | 0 min 2s          | 67%                 |
| 34   | MICROMURUGAN14@GMAIL.COM               | 0 min 2s          | 67%                 |
| 35   | MISHRAPRIYAL786@GMAIL.COM              | 0 min 2s          | 67%                 |
| 36   | NANDANA MANIVEEDU                      | 0 min 3s          | 100%                |
| 37   | NEHA BALIYAN                           | 0 min 3s          | 100%                |
| 38   | NYSANTH NS                             | 0 min 3s          | 100%                |
| 39   | OM DAS                                 | 0 min 3s          | 100%                |
| 40   | PARYA@DB.DU.AC.IN                      | 0 min 2s          | 67%                 |
| 41   | PRATIKSHA MAURYAA                      | 0 min 3s          | 100%                |
| 42   | PRERNA MAURYAA                         | 0 min 3s          | 100%                |
| 43   | RAJESHWARAN-2020-21-017@STUDENT.KAU.IN | 0 min 2s          | 67%                 |

| S.No | Participant Name              | Attended Duration | Attended Percentage |
|------|-------------------------------|-------------------|---------------------|
| 44   | RAMRAJ SINGH NAYAK            | 0 min 3s          | 100%                |
| 45   | RANDHIRSJOSAN@GMAIL.COM       | 0 min 2s          | 67%                 |
| 46   | RAVIA KAUR                    | 0 min 3s          | 100%                |
| 47   | ROSHANZHC@GMAIL.COM           | 0 min 2s          | 67%                 |
| 48   | ROUSHAN KUMAR                 | 0 min 3s          | 100%                |
| 49   | RUVEENA NARENDRAN             | 0 min 3s          | 100%                |
| 50   | SACHIN KHANDELWAL             | 0 min 3s          | 100%                |
| 51   | SANDEEP KUMAR                 | 0 min 3s          | 100%                |
| 52   | SANJEEV SHARMA                | 0 min 3s          | 100%                |
| 53   | SANKALP KAUSHAL               | 0 min 3s          | 100%                |
| 54   | SHALINI1702TRIPATHI@GMAIL.COM | 0 min 2s          | 67%                 |
| 55   | SHRUTI KAPOOR                 | 0 min 3s          | 100%                |
| 56   | SIVA PRIYA                    | 0 min 3s          | 100%                |
| 57   | SNEH SAGAR                    | 0 min 3s          | 100%                |
| 58   | SONU RAI                      | 0 min 3s          | 100%                |
| 59   | SREENAVEENA@GMAIL.COM         | 0 min 2s          | 67%                 |
| 60   | SRISHTI DHIMAN                | 0 min 3s          | 100%                |
| 61   | SWASTI JAIN                   | 0 min 3s          | 100%                |
| 62   | SWATIBAJAJ54@GMAIL.COM        | 0 min 2s          | 67%                 |
| 63   | TANEYA GUPTA                  | 0 min 3s          | 100%                |
| 64   | UTKARSH SOOD                  | 0 min 3s          | 100%                |
| 65   | VIDITZAINITH@GMAIL.COM        | 0 min 2s          | 67%                 |
| 66   | VIKASHRAJ2001K@GMAIL.COM      | 0 min 2s          | 67%                 |