


NAGARJUNA GOVT. COLLEGE (A)


IIT BOMBAY SPOKEN TUTORIAL

ACADEMIC YEAR: 2021-22


Organized by




NODAL
TELANGANA SKILLS & KNOWLEDGE CENTRE
TS KC
Telangana Skills & Knowledge Centre




CREATING OPPORTUNITIES




DEVELOPING SKILLS




SUCCESS



UNLEASHING POTENTIAL



NAGARJUNA GOVERNMENT COLLEGE (A)



Re-Accredited by NAAC with 'A' Grade
Affiliated to Mahatma Gandhi University
NALGONDA



CERTIFICATE

COURSE

The Spoken Tutorial Project

- Self-explanatory: uses simple language
- Audio-video: uses multisensory approach
- Small duration: has better retention
- Learner-centered: learn at your own pace
- Learning by doing: learn and practise simultaneously
- Empowerment: learn a new FLOSS (Free/Libre and Open Source Software)

Target Audience

- School students
- Undergraduates / Postgraduates
- Research scholars
- Teachers

Workshops

The Spoken Tutorial Project Team conducts workshops on Jmol Application and other FLOSS using spoken tutorials and gives certificates to those who pass an online test.

For more details, please visit <https://spoken-tutorial.org>

Forum

We have developed a beginner friendly Forum to answer specific questions pertaining to any part of a particular tutorial.

For more details, please visit <https://forums.spoken-tutorial.org>.



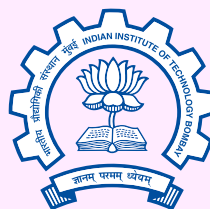
The Spoken Tutorial Project is funded by the National Mission on Education through Information and Communication Technology, Ministry of Human Resource Development, Government of India.

Contact us

Email: contact@spoken-tutorial.org
Website: <https://spoken-tutorial.org>

Forum help available to all learners

Content available in 22 Indian languages



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Jmol Application



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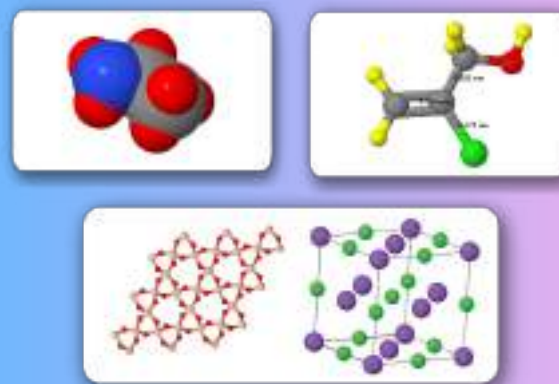
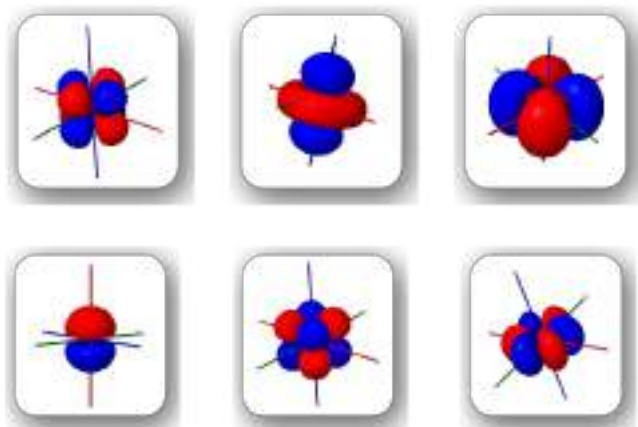
Funded by MHRD, Government of India.

Introduction

Jmol Application is a three-dimensional viewer for chemical structures and macromolecules. It is a Free Open Source Software (FOSS) developed in Java. We can create and edit 3D models of Structures. Runs on Windows, macOS, Linux and Android Systems. Useful for students, educators and researchers in chemistry and biochemistry. For download and installation visit: www.jmol.sourceforge.net.

Jmol Application for Biomolecules

- 3D Interactive images of biological molecules can be viewed.
- Secondary structures of proteins can be rendered using pdb files.
- Display of secondary structural patterns such as alpha-helix, beta-sheets, loops, random-coils in cartoon format.
- Active-sites, hydrogen bonds and disulfide bonds can be highlighted.



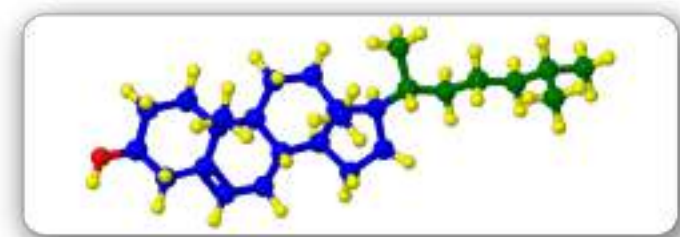
Features of Jmol Application

- Energy minimization to get the most stable conformation.
- High-quality 3D image rendering can be done with no special hardware requirements.
- It can read various file formats for example pdb, cif, mol and cml.
- We can export images to jpg, png, gif, pdf, POV-Ray and Gaussian file formats.
- We can view plane of symmetry and point groups for molecules.
- It provides simulated Proton and Carbon NMR for organic compounds.
- It loads models directly from databases (Pubchem and PDB).
- For more information visit

http://wiki.jmol.org/index.php/Main_Page

Uses of Jmol Application

- To create and visualize chemical structures in 3D.
- To render secondary structures of proteins and nucleic acids.
- View crystal structure and unit cell parameters.
- It displays structures in various display formats such as ball-and-stick, CPK, sticks etc.
- We can change the thickness of bonds, color of atoms and bonds.
- Rotate and view the molecule from various angles.
- Displays interatomic distances, bond-angles, dihedral-angles, dipoles, charges and symbols.
- Surfaces, atomic and molecular orbitals can be displayed.
- We can produce animations and create GIF files.
- Images can be used in print media-journals/publications/books.
- Useful for presentations in classrooms and lectures.



NAGARJUNA GOVT. COLLEGE (A) NALGONDA
TELANGANA SKILLS & KNOWLEDGE CENTRE

Jmol Application Certificate Course

in collaboration with
IIT Bombay Spoken Tutorial

Report:

Telangana Skills & Knowledge Centre (TSKC) conducted a certificate course on Jmol Application from 01-03-2022. In this course 218 Chemistry background students were enrolled and successfully completed their course.

Course outcome:

Jmol Application is a three-dimensional viewer for chemical structures and macromolecules. It is a Free Open Source Software (FOSS) developed in Java. We can create and edit 3D models of Structures. By using this High-quality 3D image rendering can be done with no special hardware requirements. It displays interatomic distances, bond-angles, dihedral-angles, dipoles, charges and symbols. By using this course student can create and visualize chemical structures in 3D, and render secondary structures of proteins and nucleic acids also view crystal structure and unit cell parameters

**NAGARJUNA GOVT. COLLEGE (A) NALGONDA
TELANGANA SKILL & KNOWLEDGE CENTRE**

Date: 23-02-2022


NOTICE

All the B.Sc, B.Com & B.A students are hereby informed that, who are not registered in the IIT Bombay Spoken Tutorial, register immediately by scanning the QR Code



Note:

1. It is a free of cost & remote learning training
2. After completion of course you will get a certificate from IIT Bombay Spoken Tutorial
3. Course will be allotted and intimate on 28-02-2022
4. Already registered student no need to register again


TSKC Co-Ordinator (Nodal)
N.G. College (A), NALGONDA

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Date: 28-02-2022

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All the below mentioned groups of IIT Bombay Spoken Tutorial registered students hereby informed that, TSKC allotted your course for the Academic year 2021-22 shown below. In this regard instructed that complete your course before 31-03-2022.

Sl.No	Group	Year	Course Alloted	Duration
1	BCOM CA	III	C and Cpp	1 Month
2	BZCS	III		
3	MPCS	II		
4	BZC	III	Jmol Application	
5	MPC	III		
6	BBC	III		
7	MZC	III		
8	MBC	III		
9	BTZC	III		
10	MSCS	III	R	
11	MPG	III	Scilab	

Note: Any doubts contact @ TSKC Lab, NG College(A) Nalgonda


TSKC Co-Ordinator (Nodal)
N.G. College (A), NALGONDA



1 Online / Offline content

1. The online content of Spoken Tutorials can be accessed from :
<https://spoken-tutorial.org/tutorial-search/>
2. You can also download the Spoken Tutorials for offline learning from :
<https://spoken-tutorial.org/cdcontent/>
3. From this link download the FOSS categories in the language you wish to learn.
4. The Spoken Tutorial content will be downloaded as a zip file on your machine.
5. Extract the contents of the zip file & access them.

2 The procedure to practise

1. You have been given a set of spoken tutorials and files.
2. You will typically do one tutorial at a time.
3. You may listen to a spoken tutorial and reproduce all the commands shown in the video **Side-by-Side Method**.
4. If you find it difficult to do the above, you may consider listening to the whole tutorial once and then practise during the second hearing.

3 Jmol Application

1. Click on "Select FOSS" or "All FOSS Categories" drop-down and choose "Jmol Application".
2. Click on "Select Language" or "All Languages" drop-down and choose the language (English, Hindi, Marathi ...) in which you wish to learn.
3. Click on "Submit" button.
4. You will see a list of tutorials based on your selection.
5. Start with the first tutorial in the displayed list.

4 General Instructions for Jmol

1. If you are unable to fetch/open the structure of molecules from the database websites in Jmol, please change the proxy settings and check firewall settings.
It generally works under No Proxy settings and without firewall.
2. Sometimes if you type a wrong command or if Jmol is unable to read the command you will see a zapped window and a error message. To refresh the window, open the **Console** by clicking on **File** menu.

Select **Console** from the list. Console window opens with a prompt. At the prompt type **zap** and press Enter.

5 First tutorial: Overview of Jmol Application

1. Locate the topic **Overview of Jmol Application** and click on it.
2. To view the tutorial, click on the **Play** icon which is located in the player.
3. For Ubuntu users at 4.19 min, the executable **Jmol.jar** file may not open sometimes because the permissions to execute the file were not given. Do the following to give executable permission:
Right-click on the **Jmol.jar** file and select **Properties** option. In the dialog-box select **Permissions** tab, In the **Execute** field check the check-box for **Allow executing file as program**. Close the dialog-box. Now Double-click on the **Jmol.jar** file to open the **Jmol Application** interface.

6 Second tutorial: Introduction to Jmol Application

1. Please locate the topic **Introduction to Jmol Application** and click on it.
2. To view the tutorial, click on the **Play** icon which is located in the player.
3. The **Pre-requisite** will be visible below the player (only for Online contents).
4. **Outline, Assignments, Code Files and Slides** are available below the player.
5. Adjust the size of the browser in such a way that you are able to practise in parallel.
6. These tutorials are created on Ubuntu Linux - 12.04
7. From 2.13 min to 2.34 min the tutorial shows how to open **Jmol Application**
8. From 1.33 min to 2.12 the tutorial shows information about installation of **Jmol Application**. Please ignore this step if you have already installed **Jmol** on your system.

6.1 Opening Jmol Application on Ubuntu

1. Open the extracted Jmol installer file.
Double-click on the **Jmol.jar** file. This will open the **Jmol** interface.
You can also right click on the **Jmol.jar** file.
From the options select **OpenJDK Java 8 Runtime**

from the list.

2. **Opening Jmol using terminal:** Open the terminal by pressing **Ctrl, Alt and T** keys simultaneously.

Navigate to the Jmol installer file. For example if you have downloaded and extracted the Jmol installer file `jmol-14.31.2` to the Desktop folder:

Navigate to the Jmol installer file by typing the following command at the prompt: `cd Desktop`

Press Enter key on the key board.

To run the jar file, type the following command:

```
java -jar Jmol.jar
```

Press enter on the keyboard. Jmol interface opens.

Please note: Do not close the terminal while you are working on Jmol interface. If you close the terminal, it will kill the process and Jmol interface will close.

6.2 Opening Jmol Application on Windows and Mac

1. Go to the folder where you have extracted the Jmol zip file.
Double-Click on the Jmol.jar file.

7 Eighth tutorial: Structures from Database

1. From 5.40 min to 7.23 min the tutorial describes how 2D drawings created in GChemPaint software can be viewed as 3D structures in Jmol.
2. Please visit the link given here to view tutorials on GChemPaint.
<https://spoken-tutorial.org/>

8 Common Instructions to practise

1. Create a folder on the "Desktop" with your "Name-RollNo-Component". (Eg. "Priya-07-Jmol").
2. Give a unique name to the files you save, so as to recognize it next time. (Eg. "Practice-1-Priya").
3. Remember to save all your work in your folder.
4. This will ensure that your files don't get overwritten by someone else.

5. Save your work from time to time, instead of saving it at the end of the task.
6. Play-pause-practise the whole tutorial.
7. Once the tutorial is complete, choose the next tutorial from the playlist which is located on the right side or below the player.
8. Follow all the above instructions, till you complete all the tutorials in the series.

9 Common instructions for Assignments

1. Attempt the **Assignments** as instructed in the tutorial.
2. Save your work in your folder.

10 Common instructions to use Code files

1. Click on the link "Code files" located below the player and save it in your folder
2. Extract the downloaded zip file.
3. You will see all the code/source files used in the particular tutorial.
4. Use these files as per the instructions given in the particular tutorial.

11 Tutorials that need internet connection

The following tutorials need working internet connection to practise:

1. Overview of Jmol Application
2. Modify Display and View
3. Script Console and Script Commands
4. Surfaces and Orbitals
5. Structures from Database
6. Crystal Structure and Unitcell
7. Proteins and Macromolecules
8. 3D Models of Enzymes
9. Symmetry and Pointgroup
10. Animations using Script Commands



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A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

March 2nd 2022

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This is to certify that **DHANAVATH RAJESH** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

March 2nd 2022

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Certificate of Participation

This is to certify that **DHARAVATH RAMAKRISHNA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

March 2nd 2022

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Certificate of Participation

This is to certify that **DOTI RAMU** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **DUBBAKA NAGARAJU** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **ESARAM MADHU** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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Certificate of Participation

This is to certify that **GADDAM KAVERI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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Certificate of Participation

This is to certify that **BHAVITHA GATTU** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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Certificate of Participation

This is to certify that **SAI GUDIPATI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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Certificate of Participation

This is to certify that **KALLETLA SHIRISHA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **KAMBHAMPATI SARITHA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **KANUKURTHI PRAVALLIKA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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Certificate of Participation

This is to certify that **KATTEBOINA HARISH** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **KONKA.SANDHYA KONKA .SANDHYA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **MANGALI LAVANYA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **MANGALI VAISHNAVI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **M RADHIKA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **MARRI SHIVAVENI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **MEDA SANDHYA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **M.NIDHISRI M.NIDHISRI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **MIRYALA UMA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **MOHAMMAD SANIYA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **PAVAN NAKKA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **NEELAKANTAM SANDHYA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **NOMULA KAVERI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **PADALA NAVYA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **CHANDANA PAGILLA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **PAGILLA SHIVANI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **PANTHANGI SRIKANTH** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **PASHAM SHIVANI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **PATHULOTHU VASANTHA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **PRAVEEN KUMAR PERAM** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **PITTALACHITTI CHITTI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **REGULAGADDA DEVENDAR** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **REGULAGADDA DIVYA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **REKALA VIJAYA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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March 2nd 2022

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Certificate of Participation

This is to certify that **RUBEENA TABASSUM** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **SADAM MADHAVI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **AFREEN SHAIK** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **SHAIK ASIF** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **ZUBAIR SHAIK** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **SOPPARI TEJASWI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

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Certificate of Participation

This is to certify that **TOOBA MOIZ** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **UMMARA TABASSUM** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **VADDEPALLI ELLORA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **GUNDEBOINA PRAVEEN** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **YASHWANTH MAGI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **NANDYALA UDAY PRAKASH REDDY** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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March 2nd 2022

A handwritten signature in black ink, appearing to read 'Kannan Moudgalya'.

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IIT Bombay



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Certificate of Participation

This is to certify that **PRAVEEN KUMAR PERAM** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

March 2nd 2022

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Certificate of Participation

This is to certify that **PERKA SRILATHA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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March 2nd 2022

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Certificate of Participation

This is to certify that **RAVULA BALARAJU** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

March 2nd 2022

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Certificate of Participation

This is to certify that **SANDRA NISHA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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March 2nd 2022

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Certificate of Participation

This is to certify that **SHIKHA MEHVISH** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **THUDUM VINOD** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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Certificate of Participation

This is to certify that **TOOBA MOIZ** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **DEMULA OHMSAI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **GADAM ASHWINI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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Certificate of Participation

This is to certify that **MANOJKUMAR KANDULA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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Certificate of Participation

This is to certify that **MUSOJU UPENDHAR CHARY** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **NEDUNGHAT VISHNU** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

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Certificate of Participation

This is to certify that **BATHULA CHAITHANYA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **BEESAM BEESAM MOUNIKA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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Certificate of Participation

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Certificate of Participation

This is to certify that **DEVARAKONDA NAVEEN** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **ERUGANTI VARYN** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **KOTAIAH JANAPATI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **NEELAM NAVYA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **NOMULA KAVERI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **NAVANEETHA PACHIPALA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **KAVYA PUPPALA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **RUBEENA TABASSUM** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **YARRABELLI PREETHI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **YASMEEN YASMEEN** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **BOODIDHA PAVITHRA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **BADETI THIRUMALESH** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **CHOLLETI GEETHA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **JALA KALYANI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **KOMPELLY NAGAMANI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **KONETI KOTESH** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **SHIVAVENI MARRI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **PERUMALLA SOWMYA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **SHAIK RIZWAN** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **ATHARI MANEESHA ATHARI MANEESHA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

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Certificate of Participation

This is to certify that **BOYA MOUNIKA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **SRIVANI GATTIGORLA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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IIT Bombay



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Certificate of Participation

This is to certify that **JALA KALYANI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

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Certificate of Participation

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Certificate of Participation

This is to certify that **SILIVERU NAGESH** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

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Certificate of Participation

This is to certify that **VEERABOINA UGENDHAR** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **ARPULA TAGORE VAMSHI KRISHNA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **ARUKONDA ANJANEYULU** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **KOTHAGATLA PAVAN** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **MARIPEDDI MAHENDAR REDDY** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **PANUGANTI SHIVARAM** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **MAHESH KUMAR** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **SAMALA KUSUMA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

March 2nd 2022

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Certificate of Participation

This is to certify that **SURABOINA ARAVIND** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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Certificate of Participation

This is to certify that **ANKATHI KEERTHI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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Certificate of Participation

This is to certify that **ANUMULA ANUSHA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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Certificate of Participation

This is to certify that **SHRAVANI BUTHAM** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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Certificate of Participation

This is to certify that **MAHESH MAHESH** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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Certificate of Participation

This is to certify that **CHERUKU ARUNA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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Certificate of Participation

This is to certify that **SUSHEELA DHARAVATH** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **DUPPELLI RAJESH** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **GUJJULA MOUNIKA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **PRASHANTH GGOUD** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **KAMBAMPATI SRI CHAITANYA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **KAMISSETTI ANJANEYULU** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **KATTEBOINA RAMALINGAIAH** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **MAHALAXMI KOMMANABOINA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **KONDETI VIJAY** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **LENKALAPALLY NAVYA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **NAGARJUNA GANESH** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **NANDIPATI CHAITANYA CHAITANYA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **PAKALA PRAVEEN** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **PUTTA GANESH** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **RAPOLU VAMSHI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **RAVIRALA RAMYA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **RAVULA RAMAKRISHNA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **SHAIK AKTHAR PASHA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **SK HASEENA HASEENA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **SHEELAM INDU** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **SILIVERU SHIVAKUMAR** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **TEJAVATH JOGENDAR** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **THATI VINITHA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **THUMMALAPALLI PRANITHA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **MANEESHA BONTHA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **MANUSHA NEELAM** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **BANDARU ANOOSHA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **KANKALA MALLESH** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **PAGIDIMARRI DIVYA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **GUNDEBOINA SRINIVAS** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **JALLELA RUCHITHA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **MALLIKANTI KOTESH** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **SALLA BHASKER** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **YARAGANI RENUKA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **AVULA GEETHA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **KANKALA MALLESH** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **NARSING SHIVA KUMAR** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **PASUPULETI LAKSHMIPRIYANKA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **ALIJALA KAVYA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **ANANTHULA SHIVA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **KAMISHETTI ASHWINI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

March 2nd 2022

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Certificate of Participation

This is to certify that **KATTEBOINA RAMALINGAIAH** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

March 2nd 2022

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Certificate of Participation

This is to certify that **LELLELA NAVEEN** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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This is to certify that **SIRI MAMIDI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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This is to certify that **MARIPEDDI MAHENDAR REDDY** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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Certificate of Participation

This is to certify that **NARSING SHIVA KUMAR** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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Certificate of Participation

This is to certify that **KUSUMA SAMALA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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Certificate of Participation

This is to certify that **THATI VINITHA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **BANOTHU SAI SHIREESHA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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This is to certify that **MAMIDI GOUTHAM** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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Certificate of Participation

This is to certify that **NARSING RAKESH** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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Certificate of Participation

This is to certify that **BATHULA MATHSYAGIRI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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Certificate of Participation

This is to certify that **DESHIDI SAI SHIVANI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **MAHENDARKAR PUNITHA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **SURABHI MARUTHI PRASAD** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **VUNNAM PRASANNA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **HUSNA BEGUM** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

A comprehensive set of topics pertaining to **Jmol Application** were covered in the training.

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This is to certify that **KODIDETI NAGADURGA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **KOYALKAR SRILEKHA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **NILAKURTHI BHAVANA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **SABITHA VANGURI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **SRIVALLI IRUVANTI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **JELLA SAIKUMAR** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **SHANKAR GOUD** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **VALISETTI SARAYU** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **VANI EEDA** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **SRAVANI MEDISHETTI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **RAVALI VATTIKOTI** participated in the **Jmol Application** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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