


NAGARJUNA GOVT. COLLEGE (A)

IIT BOMBAY SPOKEN TUTORIAL

ACADEMIC YEAR: 2021-22

Organized by



NODAL
TELANGANA SKILLS & KNOWLEDGE CENTRE
TS KC

CREATING OPPORTUNITIES

DEVELOPING SKILLS

UNLEASHING POTENTIAL

NAGARJUNA GOVERNMENT COLLEGE (A)

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

NALGONDA

SUCCESS

FUTURE

UNIVERSITY OF GUJARAT

TECHNICAL EDUCATION



CERTIFICATE

COURSE

About 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 practice
- Simultaneous empowerment - learn a new FLOSS

Target Audience

- Students
- Teachers and teacher educators
- Researchers to explore various branches of mathematics.

Workshop

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

For more details, please write to contact@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>



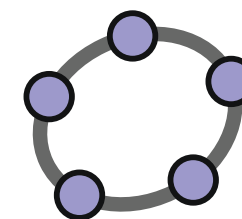
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Spoken Tutorial

<https://spoken-tutorial.org>



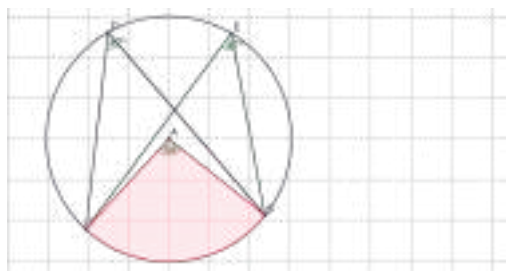
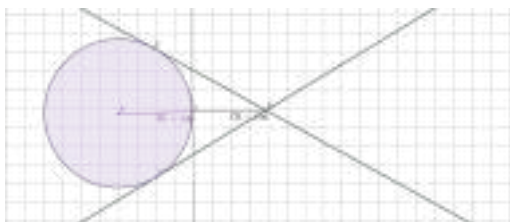
GeoGebra

National Mission on Education through Information and Communication Technology (NMEICT)
www.sakshat.ac.in

Funded by MHRD, Government of India.

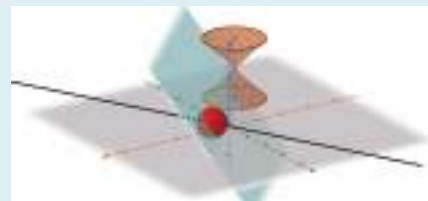
Introduction

- GeoGebra is a dynamic and interactive Mathematics for Everyone.
- It brings together Geometry, Algebra, Calculus, spreadsheets, graphing, statistics and probability applications in a single package.
- GeoGebra is available for Windows, Mac OS and Linux.
GeoGebra has tablet apps for Android, iPad and Windows.
Its web app is based on HTML5 technology.
<http://www.geogebra.org>
- Download and Installation
It is freely available for download at <http://www.geogebra.org>.



Features

- In GeoGebra, Geometry, Algebra and Spreadsheet are connected and fully dynamic
- It has easy to use interface with powerful features
- Constructions can be made with points, vectors, segments, lines, polygons.
- Figures can be drawn using conic sections, inequalities, implicit polynomials and functions.
- Figures and constructions can be changed dynamically.
- Equations and coordinates can be entered and modified directly on the screen or through Input bar.
- It has the ability to use variables for numbers, vectors and points.
- Finds derivatives and integrals of functions using the input bar
- GeoGebra has the ability to use variables for numbers, vectors and points, find derivatives and integrals of functions and has a full complement of commands like Root or Extremum.
- It has a CAS view and 3D Graphics view



Benefits

- It allows interactive explorations by dragging objects and changing parameters.
- Interactive explorations can be done using the tools in 2D and 3D Graphics modes
- Authoring tool to create interactive learning resources like web pages
- The GeoGebra software is written in the Java programming environment.
It is available in all the operating systems.
Open source software, freely available from www.geogebra.org
- GeoGebra is a tool for teachers to create interactive worksheets and learning materials.

Uses

- GeoGebra is simple and flexible in all its features.
- It provides free learning materials.
- Tools in GeoGebra are helpful in various constructions and calculations
- Teachers and students can use GeoGebra to make conjectures and to understand how to prove geometric theorems.
- GeoGebra is a very useful tool to learn and teach different branches of mathematics.

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

GeoGebra 5.04 Certificate Course

in collaboration with

IIT Bombay Spoken Tutorial

Report:

Telangana Skill & Knowledge Centre (TSKC) conducted a certificate course on GeoGebra 5.04 from 01-01-2022. In this course 106 III Year students from MPC,MPG and MSCS were enrolled and successfully completed their course.

Course outcome:

GeoGebra brings together Geometry, Algebra, Calculus, spreadsheets, graphing, statistics and probability applications in a single package. GeoGebra provides different views for various mathematical objects. An object in GeoGebra is displayed in different representations (e.g. algebraic and graphical). These representations are linked dynamically. Equations and coordinates can be entered and modified directly on the screen or through the Input bar. GeoGebra Classic's user interface provides a variety of dialog boxes. It has different accessibility features. The keyboard shortcuts allow us to access many features of GeoGebra conveniently. Using this course student can understand mathematics easily and understand how to prove geometric theorems.

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

Date: 22-12-2021


NOTICE

All the B.Sc, B.Com & B.A students are hereby informed that, those students who are not registered in IIT Bombay Spoken tutorial should register from 22-12-2021 by scanning the QR Code. Last date for registration is 28-12-2021.



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 allot and intimate on 30-12-2021
4. Already registered student no need to register again


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

NAGARJUNA GOVT. COLLEGE(A) NALGONDA**TELANGANA SKILL & KNOWLEDGE CENTRE****IIT BOMBAY SPOKEN TUTORIAL****Geo Gebra- Certificate Course-Student Enrollment**

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


Date: 30-12-2021

NOTICE

All the below mentioned groups of IIT Bombay Spoken Tutorial registered students are hereby informed that, TSKC allotted your course for the Academic year 2021-22 shown below. In this regard instructed that completed your course before 31-01-2022.

Sl.No	Group	Year	Allotted Course	Duration
1	EHP EM	III Year	Blender	1 Month
2	BBA	III Year		
3	BZG	III Year	Cell Designer	
4	BTZC	III Year		
5	BTBZ	III Year		
6	MBZ	III Year		
7	MBC	III Year		
8	BZC	III Year		
9	MPC	III Year	Geo Gebra 5.04	
10	MPG	III Year		
11	MSCS	III Year		
12	MPCS	II Year	Introduction to Computers	
13	BCOM CA	II Year		
14	BBA	II Year		
15	MPC	II Year		
16	BBC	II Year		
17	MZC	II Year		
18	MSCS	II Year		
19	BZG	II Year		
20	BZC	III Year		
21	BZC	II Year		
22	BZCS	II Year		
23	MSDS	II Year		
24	BCOM Taxation	II Year		
25	MPCS	III Year	PHP and MySQL	
26	BCOM CA	III Year	Accounting and Finance - FrontAccounting-2.4.7	

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 :
<http://spoken-tutorial.org/tutorial-search/>
2. You can also download the Spoken Tutorials for offline learning from :
<http://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 practise by reproducing all the steps shown in the video by Side-by-Side learning.
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 GeoGebra 5.04

1. Click on "Select FOSS" or "All FOSS Categories" drop-down and choose "GeoGebra 5.04".
2. Click on "Select Language" or "All Languages" drop-down and choose the language (English, Hindi, ...) 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 First tutorial: Introduction to GeoGebra

1. Locate the topic "Introduction to GeoGebra" 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 side-by-side.
6. To open GeoGebra application in Ubuntu Linux OS, click on **Dash Home**, in the search bar that appears type **geogebra**. GeoGebra icon appears.
7. Double-click on the icon to open the GeoGebra application.
8. To open GeoGebra application in Windows 10 OS, in the **Search the web and Windows** box, type **geogebra**.
9. GeoGebra appears in the list. Click on it to open the GeoGebra application.
10. From 0:40 min to 1:15 min the tutorial shows how to open **Geogebra** in Ubuntu Linux OS and Windows 10.
11. You can to open GeoGebra, using the Terminal.
12. Press CTRL, ALT and T keys simultaneously to open the Terminal
13. On the Terminal, type **geogebra** and press Enter. This will open GeoGebra.
14. Please follow the tutorial and reproduce all the activities as shown in the tutorial.
15. When you finish this topic, click on the next topic **Basics of Triangles**.

4.1 Common Instructions to practise

1. Create a folder on the "Desktop" with your "Name-RollNo-Component".
(Eg. "madhuri-5.04-geogebra").
2. Give a unique name to the files you save, so as to recognize it next time.
(Eg. "Practice-1-madhuri").

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.

4.2 Common instructions for Assignments

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

4.3 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.
5. Play-pause-practise the whole tutorial.
6. Once the tutorial is complete, choose the next tutorial from the playlist which is located on the right side or below the player.
7. Follow all the above instructions, till you complete all the tutorials in the series.



Spoken Tutorial
Project at
IIT Bombay

Certificate of Participation

This is to certify that **ARPULA TAGORE VAMSHI KRISHNA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

March 2nd 2022

Prof. Kannan M Moudgalya
IIT Bombay



Spoken Tutorial
Project at
IIT Bombay

Certificate of Participation

This is to certify that **ARUKONDA ANJANEYULU** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

March 2nd 2022

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Certificate of Participation

This is to certify that **KOTHAGATLA PAVAN** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **MARIPEDDI MAHENDAR REDDY** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **PANUGANTI SHIVARAM** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **MAHESH KUMAR** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **SAMALA KUSUMA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **SURABOINA ARAVIND** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **ANKATHI KEERTHI** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **ANUMULA ANUSHA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **SHRAVANI BUTHAM** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **MAHESH MAHESH** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **CHERUKU ARUNA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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

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Certificate of Participation

This is to certify that **SUSHEELA DHARAVATH** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **DUPPELLI RAJESH** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **MAHESH EARLA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **GUJJULA MOUNIKA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **PRASHANTH GGOUD** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **KAMBAMPATI SRI CHAITANYA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **KAMISETTI ANJANEYULU** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **KATTEBOINA RAMALINGAIAH** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **MAHALAXMI KOMMANABOINA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **KOMPALLI RAJINIKANTH** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **KONDETI VIJAY** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **KORIVI MOUNIKA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **LENKALAPALLY NAVYA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **MAHESHPURAM SWATHI** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **NAGARJUNA GANESH** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **NANDIPATI CHAITANYA CHAITANYA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **PAKALA PRAVEEN** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **PUTTA GANESH** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **RAPOLU VAMSHI** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **RAVIRALA RAMYA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **RAVULA RAMAKRISHNA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **SHAIK AKTHAR PASHA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **SK HASEENA HASEENA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **SHAIK IMRAN** participated in the **GeoGebra 5.04** 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 **SHEELAM INDU** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **SILIVERU SHIVAKUMAR** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **TEJAVATH JOGENDAR** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **THATI VINITHA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **THUMMALAPALLI PRANITHA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **MANEESHA BONTHA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **MANUSHA NEELAM** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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

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This is to certify that **BANDARU ANOOSHA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **KANKALA MALLESH** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **PAGIDIMARRI DIVYA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **GUNDEBOINA SRINIVAS** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **GUNJA BINDU BHARGAVI** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **MALLIKANTI KOTESH** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **SALLA BHASKER** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **YARAGANI RENUKA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **AVULA GEETHA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **KANKALA MALLESH** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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

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This is to certify that **NARSING SHIVA KUMAR** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

March 2nd 2022

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Certificate of Participation

This is to certify that **PASUPULETI LAKSHMIPRIYANKA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

March 2nd 2022

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Certificate of Participation

This is to certify that **AKULA ASHOK** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **AVULA MAMATHA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **BUTHAM USHARANI** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **CHILUKURI LATHA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **CHINTHAKUNTLA SHILPA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **MAROJU AMULYA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **PAYYAVULA MOUNIKA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **KOMMU CHARAN KUMAR** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **AKHIL KUMMARI** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **MUDIGONDA VAISHNAVI** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **MUSUKU SUJITH** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **NAMA SHIVA SHANKAR** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **P SRI MRUDULA MANJUSHA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **PITTALA POOJA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **ANANTHA ANUPAMA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **AVULA SHIVAPRASAD** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **JATAVATH SUDHAKAR** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **KARINGU PAVAN** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **MADAGONI NAVEEN** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **MAILA PRAVEEN** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **PANDULA SHIRISHA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **RAVIRALA GOPI** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **SAPAVATH SAIDA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **SUDAMALLA SURESH KUMAR** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **VADITHYA RAJENDER** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **VARUN MACHARLA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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

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Certificate of Participation

This is to certify that **SHIVARATHRI VENKATA VARA PRASAD** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **VADDE DIVYA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **YAMPALLA HIMA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **AKKENAPALLY RENUKA RENUKA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **BATHULA VIDYA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **KOLA SREEJA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **KUKUDALA RAMANARDDY** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **RAMAVATH LALITHA LALITHA** participated in the **GeoGebra 5.04** 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 **SAPAVATH BABY** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **SAIJYOTHI SRIRAMULA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **SUNKARABOINA PREMALATHA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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

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This is to certify that **VANAM DHANUSH** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **PRIYA GADAGOTTI** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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This is to certify that **JELLA SHILPA** participated in the **GeoGebra 5.04** 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 **GeoGebra 5.04** were covered in the training.

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Certificate of Participation

This is to certify that **SRIRAMOJU SRAVANI SRIRAMOJU** participated in the **GeoGebra 5.04** 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 **BHUKYA JAGADISH KUMAR** participated in the **GeoGebra 5.04** 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 **SAIKUMAR KANCHARIKUNTLA** participated in the **GeoGebra 5.04** 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 KATHULA** participated in the **GeoGebra 5.04** 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 **RAJKUMAR ORSU** participated in the **GeoGebra 5.04** 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 **PULUGU MAHESH** participated in the **GeoGebra 5.04** 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 **SAKINALA PRANAVA SWAROOP** participated in the **GeoGebra 5.04** 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 **SAPAVATH SHIVA** participated in the **GeoGebra 5.04** 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 **VARIKUPPALA MAHENDAR** participated in the **GeoGebra 5.04** 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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