NAGARJUNA GOVT. COLLEGE (A)

IIT BOMBAY SPOKEN TUTROAL

AYADEMIC YEAR: 2019-20

Organized by

NODAL

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

CREATING OPPORTUNITIES **DEVELOPING SKILLS** **UNLEASHING POTENTIAL**

NAGARJUNA GOVERNMENT COLLEGE (A)
Re-Accredited by NAAC with 'A' Grade
Affiliated to Mahatma Gandhi University

NALGONDA

CellDesinger™

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 practice simultaneously

- Empowerment - learn a new FOSS

Target group

- School students

- Undergraduates / Postgraduates

- Research scholars

- Teachers

Workshops

The Spoken Tutorial Project Team conducts work-shops on CellDesigner and other FOSS 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

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Website : http://spoken-tutorial.org

IIT Bombay

Spoken Tutorials

CellDesigner™

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

http://spoken-tutorial.org

Introduction

- CellDesigner is a modeling tool of biochemical networks with graphical user interface.

- It is designed to be Systems Biology Work bench compliant, and support Systems Biology Markup Language format.

- CellDesigner is developed by the Systems Biology Institute (SBI), Tokyo, Japan.

- Latest version is 4.4

- Details about CellDesigner are available at this link http://www.celldesigner.org/index.html

Features of CellDesigner

- Biochemical Gene Regulatory Networks Modeling with GUI.

- Visual Representation of Biochemical Semantics.

- Comprehensive Graphical Notation: SBGN Process Diagram.

- Is a Systems Biology Markup Language compliant software.

- Direct integration with SBML ODE Solver and Copasi.

- Smooth linkage to SBWpowered simulation module.

- Database Connections.

- Export image to image files including PDF and SVG format.

System Requirements

The current version of CellDesigner requires Java2 Runtime Environment (JRE1.6.0 or later).

Pathway Databases

- Directly accessible from CellDesigner's database menu:

    - PANTHER Pathway database
    - BioModels.Net

- Other databases using CellDesigner for Pathway building

    - iPAVS
    - NaviCell
    - BioPP

Plugins

- CellDesigner Plugins allow developers to extend the function of CellDesigner.

- CellDesignerTM 4.0 onwards support Plugin functions.

Uses of CellDesigner

- Easy data exchange is possible with other SBML compliant applications.

- SBML is the computer-readable format for representing models of biochemical reaction networks.

- Calling SBML ODE Solver and Copasi directly from CellDesigner via the ControlPanel enables us

    - to specify details of parameters
    - conduct parameter search and
    - in interactive simulation in intuitive manner.

- CellDesigner complies with Systems Biology Workbench, which enables the seamless linkage to SBWpowered simulators.

Graphical notation of CellDesigner (ver4.2)
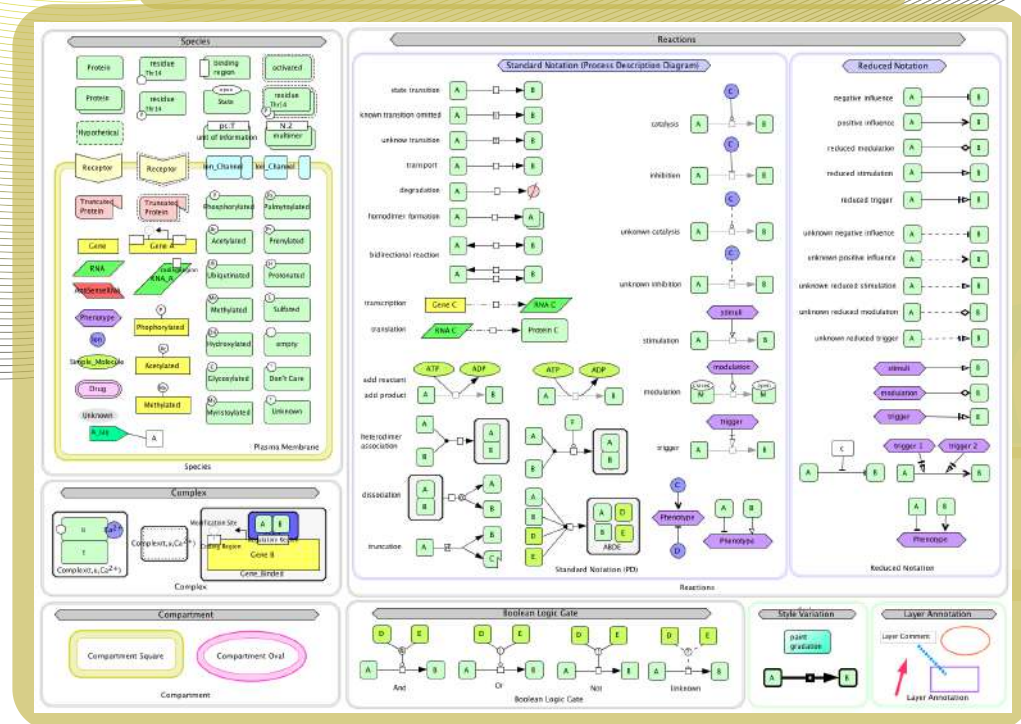
NAGARJUNA GOVT. COLLEGE (A) NALGONDA
TELANGANA SKILLS & KNOWLEDGE CENTRE

Cell Designer Certificate Course
in collaboration with
IIT Bombay Spoken Tutorial
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Report:

Telangana Skills & Knowledge Centre (TSKC) conducted a certificate course on Cell Designer from 01-03-2020. In this course 76 Life Science students (BZC ,BZG,BBC, BTZC) were enrolled and successfully completed their course.

Course outcome:

Cell Designer is a process diagram editor for drawing gene-regulatory and biochemical networks. Cell Designer is used for user-friendly visualization Modelling and Simulation of genetic regulatory networks, Protein networks and metabolic networks. Intuitive user-interface helps you to draw a diagram in rich graphical representation with your own design.

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

Date: 17-02-2020

NOTICE

All the B.Sc, B.Com & B.A students are hereby informed that, who are not registered in the IIT Bombay Spoken Tutorial for the Academic Year 2019-20, register immediately by scanning the QR Code. Last date for registration is 24-02-2020.

Note:

1. It is free of cost & remote learning training
2. After completion of the course you will get a certificate from IIT Bombay Spoken Tutorial
3. Course will be allotted and will intimate on 26-02-2020
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
CellDesigner-Student Enrollment

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

Date: 26-02-2020

NOTICE

All the below mentioned groups of IIT Bombay Spoken Tutorial registered students hereby informed that, TSKC allotted your course for the Academic year 2019-20 are shown below. In this regard instructed that complete your course before 31-03-2020.

Sl.No	Group	Year	Allotted Course	Duration
1	MBC	III	Biopython	1 Month
2	MZC	III		
3	MBC	II		
4	MZC	II		
5	MSCS	II	C and Cpp	
6	MPCS	II		
7	BCOM CA	III		
8	BZC	III	CellDesigner	
9	BZG	III		
10	BBC	III		
11	BBC	II		
12	BTZC	II		
13	MPC	II	GeoGebra 5.04	
14	MPC	III		
15	MCIC	III		
16	MPG	III		
17	MPG	II		
18	MPCS	III	HTML	

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 reproduce all the commands shown in the video.

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 CellDesigner

1. Click on `"Select FOSS"` or `"All FOSS Categories"` drop-down and choose `"CellDesigner"`.

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 First tutorial: Installation of CellDesigner

1. Please locate the topic `Introduction to CellDesigner` 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 practice in parallel.

6. These tutorials are created on Ubuntu Linux - 14.04

7. From 0.00 min to 13.03 min the tutorial shows how to open `CellDesigner`

4.0.1 Opening CellDesigner on Ubuntu Linux

(a) If you are unable to open `CellDesigner` as demonstrated, go to the `Terminal`

(b) To do so, press the CTRL, ALT and T keys simultaneously

(c) On the `Terminal`, type `CellDesigner` and press `Enter`. This will open `CellDesigner`

4.1 Instructions to practise

(a) Create a folder on the `"Desktop"` with your `"Name-RollNo-Component"`. (Eg. `"Priya-09-CellDesigner"`).

(b) Give a unique name to the files you save, so as to recognize it next time. (Eg. `"Practice-1-Priya"`).

(c) Remember to save all your work in your folder.

(d) This will ensure that your files don't get over-written by someone else.

(e) Save your work from time to time, instead of saving it at the end of the task.

4.2 Common instructions for Assignments

(a) Attempt the `Assignments` as instructed in the tutorial.

(b) Save your work in your folder.

4.3 Common instructions to use Code files

(a) Click on the link `"Code files"` located below the player and save it in your folder.

(b) Extract the downloaded zip file.

(c) You will see all the code/source files used in the particular tutorial.

(d) Use these files as per the instructions given in the particular tutorial.

8. Play-pause-practise the whole tutorial.

9. Once the tutorial is complete, choose the next tutorial from the playlist which is located on the right side or below the player.

10. Follow all the above instructions, till you complete all the tutorials in the series.

Certificate of Participation

Spoken Tutorial
Project at
IIT Bombay

This is to certify that **CHANDANA AMBATI** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial
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Certificate of Participation

This is to certify that **MD. ASMA** participated in the **CellDesigner** training organized at

Nagarjuna Government College (Autonomous), Nalgonda in **January 2020**

semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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Certificate of Participation

This is to certify that **BEPANGI PRADEEPTHI** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

Prof. Kannan M Moudgalya
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Certificate of Participation

This is to certify that **BOLUGURI SOWJANYA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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Certificate of Participation

This is to certify that **CHINNAPAGU JACOB** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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

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Certificate of Participation

This is to certify that **DENKANI DANIEL** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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

March 1st 2020

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

March 1st 2020

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This is to certify that **DIVYASRI KODIDALA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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

March 1st 2020

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

March 1st 2020

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

March 1st 2020

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

March 1st 2020

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

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

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

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This is to certify that **SURA HARI PRIYANKA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **TAYYABA TAYYABA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **SHIVA PRASAD THIRUGUDU** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **VALLAPU SAMPOORNA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **VEERAMALLA TULASI** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **SWATHI VUPPULA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial Project at IIT Bombay

Certificate of Participation

This is to certify that **DEEPTHI YANNA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial
Project at
IIT Bombay

Certificate of Participation

This is to certify that **ABBAGONI SRILATHA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial Project at IIT Bombay

Certificate of Participation

This is to certify that **CHANDA PAVANI** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **DHANDU BALAKRISHNA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

Spoken Tutorial Project at IIT Bombay

Certificate of Participation

This is to certify that **DHARA SHIREESHA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

Certificate of Participation

This is to certify that **ITHARAJU MANJULA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

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Certificate of Participation

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This is to certify that **KASAPARAJU SHANKAR** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

Certificate of Participation

This is to certify that **NEELAM ASHWINI** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

Certificate of Participation

This is to certify that **GOSKONDA MOUNIKA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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Certificate of Participation

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

March 1st 2020

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IIT Bombay

Certificate of Participation

This is to certify that **GUNDABOINA RAMANA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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Certificate of Participation

This is to certify that **GUNDE GOWRI SRI** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

Certificate of Participation

This is to certify that **AMAROJU SAICHAND** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

Spoken Tutorial Project at IIT Bombay

Certificate of Participation

This is to certify that **BONGARALA MANOHAR** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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Certificate of Participation

This is to certify that **CHALLA SRILATHA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

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Certificate of Participation

This is to certify that **KASANI NEERAJA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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Certificate of Participation

This is to certify that **THALLA NARESH** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

Certificate of Participation

This is to certify that **MAHESH VUYYALA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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Certificate of Participation

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This is to certify that **CHINTHA SRILEKHA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

Certificate of Participation

This is to certify that **ANUMULA CHAITANYA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

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Certificate of Participation

This is to certify that **KORIVI SHIREESHA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

Certificate of Participation

This is to certify that **MUNAVATH SUMAN** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

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Certificate of Participation

This is to certify that **NAGASHETTI DHANALAXMI** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

Certificate of Participation

This is to certify that **NEELAKANTAM KARTHIK KUMAR** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

Certificate of Participation

This is to certify that **REBECA POLE** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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Certificate of Participation

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Project at
IIT Bombay

This is to certify that **VANAM RAJESH** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

Certificate of Participation

This is to certify that **VEMULA SRILEKHA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

Certificate of Participation

This is to certify that **KUNDURI SONIYA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

Spoken Tutorial Project at IIT Bombay

Certificate of Participation

This is to certify that **NAROJU KRISHNAVENI** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

Spoken Tutorial Project at IIT Bombay

Certificate of Participation

This is to certify that **BHUKYA ANJIBABU** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **BOMMIDI SHYAM PRASAD** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

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Project at
IIT Bombay

Certificate of Participation

Spoken Tutorial
Project at
IIT Bombay

This is to certify that **DANDY MANOJ KUMAR** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **IRUGU MAHENDER** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial Project at IIT Bombay

Certificate of Participation

This is to certify that **JANAPATI MADHU** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial Project at IIT Bombay

Certificate of Participation

This is to certify that **KAVYA SRI RADHAM** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

Certificate of Participation

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Project at
IIT Bombay

This is to certify that **KOPPULA VINAY** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

Certificate of Participation

This is to certify that **KOTHA PUSHPANJALI** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

Spoken Tutorial
Project at
IIT Bombay

Certificate of Participation

This is to certify that **JAYANTH GOUD** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

Prof. Kannan M Moudgalya
Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **PAVAN KALYAN SANDA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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March 1st 2020

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IIT Bombay

Certificate of Participation

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Project at
IIT Bombay

This is to certify that **SHAIK SHAILANI BABA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

Certificate of Participation

This is to certify that **VANAM GANESH GANESH** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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

March 1st 2020

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IIT Bombay

Spoken Tutorial Project at IIT Bombay

Certificate of Participation

This is to certify that **GANDHASIRI NAVYA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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March 1st 2020

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IIT Bombay

Spoken Tutorial Project at IIT Bombay

Certificate of Participation

Spoken Tutorial Project at IIT Bombay

This is to certify that **NALLAVELLY ANJIBABU** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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March 1st 2020

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IIT Bombay

Certificate of Participation

This is to certify that **MIDATHAPALLY REVATHI** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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March 1st 2020

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IIT Bombay

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Certificate of Participation

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This is to certify that **POTHALA VICTORIA RANI** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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March 1st 2020

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IIT Bombay

Certificate of Participation

This is to certify that **RAVULA BHAGYALAXMI** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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IIT Bombay

Spoken Tutorial Project at IIT Bombay

Certificate of Participation

This is to certify that **GADEPAKA YAMUNA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** 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

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IIT Bombay

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Certificate of Participation

This is to certify that **NIKHIL TEJA GOUD SAMALA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

This is to certify that **ASHWAN DATH KOMPELLY** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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This is to certify that **PARVATHAPURAM VAMSHHI** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2020** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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IIT Bombay