NAGARJUNA GOVT. COLLEGE (A)

IIT BOMBAY SPOKEN TUTROAL

AYADEMIC YEAR: 2021-22

Organized by

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

Email   : contact@spoken-tutorial.org
             info@spoken-tutorial.org

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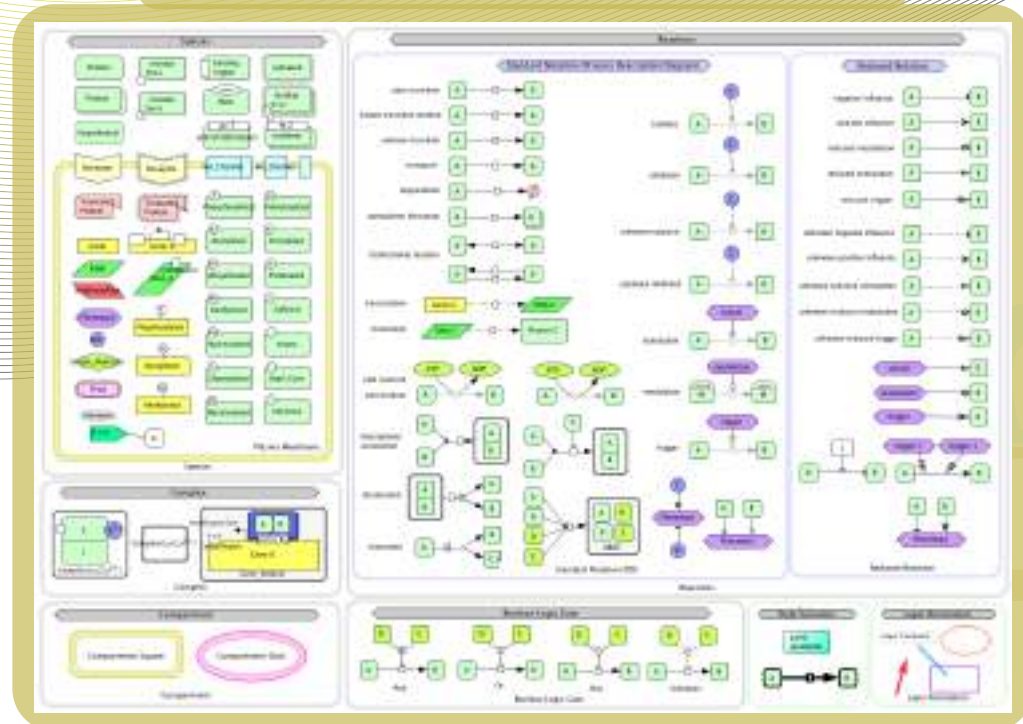
NAGARJUNA GOVT. COLLEGE (A) NALGONDA
TELANGANA SKILL & KNOWLEDGE CENTRE

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

Telangana Skill & Knowledge Centre (TSKC) conducted a certificate course on Cell Designer from 01-01-2022. In this course 72 III Year students from 6 life science groups(BZG,BTZC,BTBZ,MBZ,MBC & BZC) 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 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

Sl.No	Name	Roll Number	Group	Year	Email	Gender
	NAGARJUNA GOVT. COLLEGE(A) NALGONDA					
	TELANGANA SKILL & KNOWLEDGE CENTRE					
	IIT BOMBAY SPOKEN TUTORIAL					
	Cell Designer- Certificate Course-Student Enrollment					
1	ATHUKURI VINAY	19044028445010	BZC	III	athukurivinay2002@gmail.com	Male
2	DAIDA MAHESH	19044028445046	BZC	III	daidamahesh158@gmail.com	Male
3	ERIGI KAVYA SREE	19044028445062	BZC	III	kavyasrierigi@gmail.com	Female
4	KUNCHAM ANUSHA	19044028445112	BZC	III	anusha9390458920@gmail.com	Female
5	NEDUNGHAT VISHNU	19044028445150	BZC	III	nedunghatvishnu.ngc@gmail.com	Male
6	NEHA NAAZ	19044028445154	BZC	III	nehanaaz.ngc@gmail.com	Female
7	RAPOLU KAVERI	19044028445176	BZC	III	rapolukaveringc@gmail.com	Female
8	SHAIK ARSHIYA	19044026445190	BZC	III	shaikarshiya.ngc@gmail.com	Female
9	SHAIK MASOOD	19044028445193	BZC	III	mn1999544@gmail.com	Male
10	PRIYANKA AITHARAJU	19044028446002	BZG	III	priyankaaitharaju894@gmail.com	Female
11	BOJJAMONI MAHESH	19044028446013	BZG	III	bojjamonimahesh@gmail.com	Male
12	DEGALA SUPRAJA	19044028446019	BZG	III	suprajadegala30@gmail.com	Female
13	DUDDU SAISRUJINI	19044028446020	BZG	III	dsrujini8899@gmail.com	Female
14	ESLAVATH SURESH	19044028446023	BZG	III	eslavathsuresh021@gmail.com	Male
15	GORIGE JYOTHI	19044028446026	BZG	III	gorigejyothi181@gmail.com	Female
16	KANUKU NAGARAJU	19044028446030	BZG	III	kanukunagaraju6@gmail.com	Male
17	KATTEBOINA SHIVA	19044028446032	BZG	III	shivankatteboina58@gmail.com	Male
18	LAVUR SWETHA	19044028446037	BZG	III	swethalavuri46@gmail.com	Female
19	MADAGANI MAHESH	19044028446038	BZG	III	madaganimaheshngc@gmail.com	Male
20	MADARI SRUTHI	19044028446039	BZG	III	sruthisony242@gmail.com	Female
21	MADDI SUSHMAREDDY	19044028446040	BZG	III	maddisushmareddy@gmail.com	Female
22	MADDI SUSHMAREDDY	19044028446020	BZG	III	maddisushmareddy@gmail.com	Female
23	MADDI VIDYA	19044028446041	BZG	III	maddividya5@gmail.com	Female
24	MEDISHETTI MURALI KRISHNA	19044028446046	BZG	III	muralikrishnamedishetti@gmail.com	Male
25	PEDHAMAMU MANISHA	19044028446058	BZG	III	manisweaty9@gmail.com	Female
26	PERIKA MRUDULA MANJUSHA	19044028446060	BZG	III	mrudulamanjushaperika@gmail.com	Female

	NAGARJUNA GOVT. COLLEGE(A) NALGONDA					
	TELANGANA SKILL & KNOWLEDGE CENTRE					
	IIT BOMBAY SPOKEN TUTORIAL					
	Cell Designer- Certificate Course-Student Enrollment					
Sl.No	Name	Roll Number	Group	Year	Email	Gender
27	MACHAGIRI RADHARAPU	19044028446065	BZG	III	rmachagiri@gmail.com	Male
28	SAMA SHASHI KUMAR	19044028446067	BZG	III	samashashikumar444@gmail.com	Male
29	SINGAM SANJANA	19044028446069	BZG	III	singamsanjana123@gmail.com	Female
30	TEJASWINI THOTAKURI	19044028446071	BZG	III	tejaswinithotakuri@gmail.com	Female
31	MAHESH VADDEGONI	19044028446074	BZG	III	maheshgoudvv@gmail.com	Male
32	NEMMOJU GEETHASREE	19044028446057	BZG	III	nemmojugeethasree@gmail.com	Female
33	AMATUL SAFOORA	19044028446005	BZG	III	amatulsafoora124@gmail.com	Female
34	ASFIYA KOUSER	19044028446006	BZG	III	mmalihaneef@gmail.com	Female
35	DECHARAJU NISHITHA	29044028446018	BZG	III	dnishitha4@gmail.com	Female
36	KOMMU CHARAN KUMAR	19044028446033	BZG	III	charan45kumar@gmail.com	Male
37	CHANDIKA DURGA BHAVANI PAKA	19044028446015	BZG	III	pakabhavaniyadav555@gmail.com	Female
38	SHIRGAMALLA VIJAYALAXMI	19044028446070	BZG	III	vijjiswaero@gmail.com	Female
39	ALLE SHARANYA	19044028446004	BZG	III	sharanyaalle0912@gmail.com	Female
40	PAVANI GADAGOTI	19044028446024	BZG	III	gadagotipavani@gmail.com	Female
41	GORIGE JYOTHI	19044028446026	BZG	III	gorigejyothi3636@gmail.com	Female
42	LAVURI SWETHA	19044028446037	BZG	III	swethalavuri8@gmail.com	Female
43	MEGAVATH VASU	19044028446047	BZG	III	vasumegavath68@gmail.com	Male
44	MD AMREEN AMREEN	19044028446050	BZG	III	mdamreen635@gmail.com	Female
45	RUPAVATH MOHAN	19044028446066	BZG	III	rupavathmohan13@gmail.com	Male
46	BOMMAKANTI VENNELA	19044028446014	BZG	III	bommakantivennela@gmail.com	Female
47	BANOTH TRIVENI BAI	19044028446008	BZG	III	trivenibai44@gmail.com	Female
48	SRIVALLI IRUVANTI	19044028489002	BTZC	III	iruvantisrivalli@gmail.com	Female
49	JELLA SAIKUMAR	19044028489003	BTZC	III	jellasaikumar10@gmail.com	Male
50	SHANKAR GOUD	19044028489006	BTZC	III	nakirekantishankarshankar998@gmail.co	Male
51	VALISETTI SARAYU	19044028489007	BTZC	III	vijayakumaripokala1980@gmail.com	Female

Sl.No	Name	Roll Number	Group	Year	Email	Gender

NAGARJUNA GOVT. COLLEGE(A) NALGONDA

TELANGANA SKILL & KNOWLEDGE CENTRE

IIT BOMBAY SPOKEN TUTORIAL

Cell Designer- Certificate Course-Student Enrollment

Sl.No	Name	Roll Number	Group	Year	Email	Gender
52	VANI EEDA	19044028489001	BTZC	III	eedavani3@gmail.com	Female
53	SRAVANI MEDISHETTI	19044028489004	BTZC	III	sravanimedishetti.ngc@gmail.com	Female
54	RAVALI VATTIKOTI	19044028489008	BTZC	III	ravalisri2001@gmail.com	Female
55	VARIKUPPALA MUKESH	19044028342014	BTBZ	III	mukeshvari7@gmail.com	Male
56	ROOPA REDDY PINNAPUREDDY	19044028342017	BTBZ	III	roopareddy1213@gmail.com	Female
57	MOHAMMAD ANJUM	19044028342020	BTBZ	III	mohammadanjum.ngc@gmail.com	Female
58	KOTLA PHANISREE	19044028342005	BTBZ	III	kotlaphani1308@gmail.com	Female
59	NARRA SRIKANTH	19044028342008	BTBZ	III	narrasrikanth829@gail.com	Male
60	CHALLA SHIVA	19044028342009	BTBZ	III	challashiva.ngc@gmail.com	Male
61	SHARON DASARI	19044028342012	BTBZ	III	dasarisharon4@gmail.com	Female
62	LIKITHA NAKERAKANTI	19044028342018	BTBZ	III	nlikita311@gmail.com	Female
63	BANDARI MANJU	19044028342021	BTBZ	III	bandarimanju522@gmail.com	Female
64	JAYALAKSHMI JALA	19044028341002	MBZ	III	jalajayalakshmi68@gmail.com	Female
65	KALLURI NAVEEN	19044028341015	MBZ	III	kallurinaveen134@gmail.com	Male
66	GANDURI VARALAXMI	19044028341020	MBZ	III	varalaxmiganduri@gmail.com	Female
67	PORANDLA VARSHINI	19044028341023	MBZ	III	pvarshini428@gmail.com	Female
68	SRAVANI CHITTIMALLA	19044028341025	MBZ	III	sravaniramulu.chittimalla@gmail.com	Female
69	BANDARU TRIVENI	19044028341010	MBZ	III	bandarutriveni2@gmail.com	Female
70	KOYALKAR SRILEKHA	19044028458001	MBC	III	koyalkarsrilekha@gmail.com	Female
71	NILAKURTHI BHAVANA	19044028458005	MBC	III	bhavananilakurthi@gmail.com	Female
72	SABITHA VANGURI	19044028458006	MBC	III	vangurisabitha@gmail.com	Female

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	
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	1 Month
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 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 **ATHUKURI VINAY** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **July 2021** 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.

August 30th 2021

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **DAIDA MAHESH** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **July 2021** 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.

August 30th 2021

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **ERIGI KAVYA SREE** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **July 2021** 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.

August 30th 2021

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial
Project at
IIT Bombay

Certificate of Participation

This is to certify that **KUNCHAM ANUSHA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **July 2021** 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.

August 30th 2021

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial Project at IIT Bombay

Certificate of Participation

This is to certify that **NEDUNGHAT VISHNU** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **July 2021** 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.

August 30th 2021

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial
Project at
IIT Bombay

Certificate of Participation

This is to certify that **NEHA NAAZ** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **July 2021** 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.

August 30th 2021

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial
Project at
IIT Bombay

Certificate of Participation

This is to certify that **RAPOLU KAVERI** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **July 2021** 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.

August 30th 2021

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **SHAIK ARSHIYA** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **July 2021** 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.

August 30th 2021

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial Project at IIT Bombay

Certificate of Participation

Spoken Tutorial
Project at
IIT Bombay

This is to certify that **SHAIK MASOOD** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **July 2021** 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.

August 30th 2021

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **PRIYANKA AITHARAJU** participated in the **CellDesigner** 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 **CellDesigner** 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 **BOJJAMONI MAHESH** participated in the **CellDesigner** 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 **CellDesigner** 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 **DEGALA SUPRAJA** participated in the **CellDesigner** 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 **CellDesigner** 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 **DUDDU SAISRUJINI** participated in the **CellDesigner** 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 **CellDesigner** 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 **SANDHYA ARUPULA** participated in the **CellDesigner** 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 **CellDesigner** 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 **ESLAVATH SURESH** participated in the **CellDesigner** 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 **CellDesigner** were covered in the training.

March 2nd 2022

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial Project at IIT Bombay

Certificate of Participation

Spoken Tutorial
Project at
IIT Bombay

This is to certify that **GORIGE JYOTHI** participated in the **CellDesigner** 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 **CellDesigner** were covered in the training.

March 2nd 2022

Prof. Kannan M Moudgalya
IIT Bombay

Certificate of Participation

This is to certify that **KANUKU NAGARAJU** participated in the **CellDesigner** 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 **CellDesigner** 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 **KATTEBOINA SHIVA** participated in the **CellDesigner** 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 **CellDesigner** were covered in the training.

March 2nd 2022

Prof. Kannan M Moudgalya
IIT Bombay

Spoken Tutorial Project at IIT Bombay

Certificate of Participation

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

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March 2nd 2022

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IIT Bombay

Certificate of Participation

This is to certify that **MADAGANI MAHESH** participated in the **CellDesigner** 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 **CellDesigner** were covered in the training.

March 2nd 2022

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IIT Bombay

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Certificate of Participation

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

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March 2nd 2022

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IIT Bombay

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Certificate of Participation

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

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March 2nd 2022

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Certificate of Participation

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

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March 2nd 2022

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IIT Bombay

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Certificate of Participation

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

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March 2nd 2022

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Certificate of Participation

This is to certify that **PEDHAMAMU MANISHA** participated in the **CellDesigner** 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 **CellDesigner** were covered in the training.

March 2nd 2022

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IIT Bombay

Certificate of Participation

This is to certify that **PERIKA MRUDULA MANJUSHA** participated in the **CellDesigner** 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 **CellDesigner** were covered in the training.

March 2nd 2022

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Spoken Tutorial is a project at IIT Bombay, started with funding from the National Mission on Education through ICT, Ministry of Education (previously MHRD), Govt. of India

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Certificate of Participation

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

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March 2nd 2022

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IIT Bombay

Certificate of Participation

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

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March 2nd 2022

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Certificate of Participation

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

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IIT Bombay

Certificate of Participation

This is to certify that **AMATUL SAFOORA** participated in the **CellDesigner** 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 **ASFIYA KOUSER** participated in the **CellDesigner** 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 **DECHARAJU NISHITHA** participated in the **CellDesigner** 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 **KOMMU CHARAN KUMAR** participated in the **CellDesigner** 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 **CHANDIKA DURGA BHAVANI PAKA** participated in the **CellDesigner** 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 **SHIRGAMALLA VIJAYALAXMI** participated in the **CellDesigner** 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 **ALLE SHARANYA** participated in the **CellDesigner** 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 **PAVANI GADAGOTI** participated in the **CellDesigner** 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 **GORIGE JYOTHI** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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Certificate of Participation

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This is to certify that **MEGAVATH VASU** participated in the **CellDesigner** 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 **MD AMREEN AMREEN** participated in the **CellDesigner** 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 **RUPAVATH MOHAN** participated in the **CellDesigner** 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 **BOMMAKANTI VENNELA** participated in the **CellDesigner** 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 **BANOTH TRIVENI BAI** participated in the **CellDesigner** 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 **SRIVALLI IRUVANTI** participated in the **CellDesigner** 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 **JELLA SAIKUMAR** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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March 2nd 2022

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

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IIT Bombay

Certificate of Participation

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

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March 2nd 2022

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Certificate of Participation

This is to certify that **VANI EEDA** participated in the **CellDesigner** training organized at

Nagarjuna Government College (Autonomous), Nalgonda in **January 2022**

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

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

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March 2nd 2022

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IIT Bombay

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Certificate of Participation

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

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March 2nd 2022

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Certificate of Participation

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

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March 2nd 2022

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Certificate of Participation

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

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March 2nd 2022

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This is to certify that **NARRA SRIKANTH** participated in the **CellDesigner** 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 **SHARON DASARI** participated in the **CellDesigner** 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 **LIKITHA NAKERAKANTI** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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March 2nd 2022

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March 2nd 2022

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Certificate of Participation

This is to certify that **JAYALAKSHMI JALA** participated in the **CellDesigner** 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 **KALLURI NAVEEN** participated in the **CellDesigner** 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 **GANDURI VARALAXMI** participated in the **CellDesigner** 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 **PORANDLA VARSHINI** participated in the **CellDesigner** training organized at **Nagarjuna Government College (Autonomous), Nalgonda** in **January 2022** semester, with course material provided by the Spoken Tutorial Project, IIT Bombay.

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March 2nd 2022

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Certificate of Participation

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