E-Learning Cell

(2021-22)

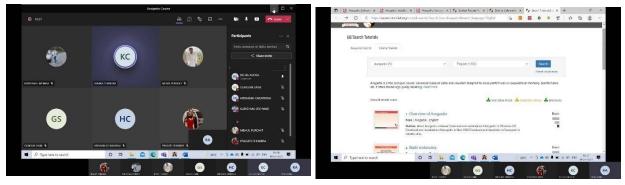
In the academic session 2021-22, E-learning Cell continued with its mission to equip students with the necessary IT skills thus making them more employable.

Under the **Spoken Tutorial Project, an initiative by IIT Bombay**, the Cell successfully conducted the following addon courses. The courses received many registrations from students across various disciplines.

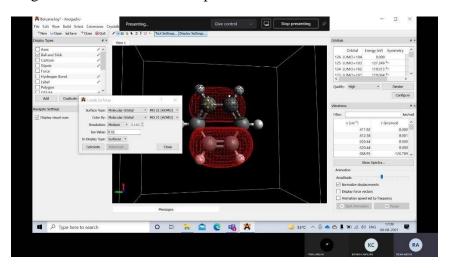
Avogadro

Conducted from :20th July 2021- 2nd August 2021

It is an advanced molecule editor and visualizer designed for cross-platform use in computational chemistry, molecular modeling, material science, bioinformatics, etc. Avogadro has features for high quality rendering, interactive tools, commands and powerful plug-in architecture.



The orientation of the course was held on 19th July 2021 on MS Teams. To assist the students in completing the course, doubts solving sessions were held online on 26th July and 4th August 2021. The course completion exam was conducted on 24th August 2021.



• Applications of Geogebra

Conducted from: 22nd July 2021- 11th August 2021

GeoGebra is a dynamic and interactive mathematics software for geometry, algebra, calculus, trigonometry and statistics. Tools in GeoGebra are helpful in various constructions and calculations. Entry of equations and mapping of various variables can be done using the tools, input bar, CAS and spreadsheet views. Interactive explorations can be done using the tools in 2D and 3D Graphics modes. GeoGebra is a very useful tool to learn and teach different branches of mathematics.

The orientation of the course was held on 22nd July 2021 on MS Teams. Doubts solving sessions were held for students online on 29th July 2021 and 18th August 2021. The course completion exam was conducted on 13th September 2021.

• Video Editing Using Blender

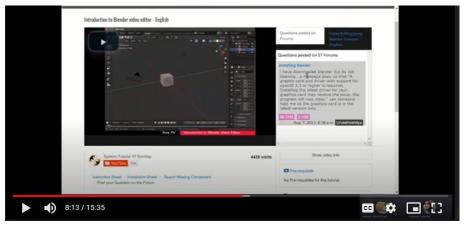
Conducted from :1st August 2021- 21st August 2021

Blender is a cross platform, 3D-multimedia suite with 2D-ability. In this course students learnt how to edit videos using Blender. The sessions gave insight into incorporating features like adding multi-track audio and video editing, annotation, special effects and rendering.

The orientation of the course was held on 29th July 2021 on MS Teams. To resolve student queries, doubts solving session was held on 7th August 2021. The course completion exam was conducted on 26th September,2021.







On popular demand the E-learning cell conducted a second run of popular Data science courses in Python and R.

• R Course

Conducted from :4th August 2021- 24th August 2021

R is an open-source software that facilitates data analysis, modeling, inferential testing and forecasting. It is a user-friendly software which allows to create new function commands to solve statistical problems.

The orientation of the course was held on 3^{rd} August 2021 on MS Teams. Meetings were held online to solve students queries and doubts on 10^{th} August , 17^{th} August and 25^{th} August 2021.

• Python

Conducted from :21st September 2021-4th November 2021

Python is a general-purpose dynamic programming language for Scientific Computing. It is becoming ever more popular for data science. Companies worldwide are using Python to harvest insights from their data and gain a competitive edge.

The orientation of the course was held on 21st September 2021 on MS Teams. Doubt solving session for students was held on 28th September 2021.



