

# Gurukul Mahila Mahavidyalaya

Kalibadi Road, Raipur (C.G.)

## Department of Science

## Science Council

Session 2021-22

|                |   |
|----------------|---|
| Event          | Guest Lecture   |
| Guest Lecturer | Dr. Ayush Agrawal   |
| Topic          | Research Associate in Raman Institute of Bangalore<br>“Kinetics Dynamic and Structural studies on lipid membrane” |
| Platform       | Google meet ( <a href="https://meet.google.com/sdw-oayg-inx">https://meet.google.com/sdw-oayg-inx</a> )           |
| Date           | 30/09/2021  |
| Time           | 11:00 AM onwards  |

The screenshot shows a Google Meet interface with a presentation slide. The slide title is "Non sequential mechanism". It features a reaction scheme diagram at the top showing a sequence of states. Below the diagram are two graphs: "Irreversible non sequential" and "Reversible non sequential". Both graphs plot "Normalized intensity" on the y-axis (log scale from 10<sup>0</sup> to 10<sup>2</sup>) against "Time (minutes)" on the x-axis (0 to 6). The "Irreversible" graph shows a decay curve with a corresponding histogram. The "Reversible" graph shows a similar decay curve with a histogram. In the center of the slide, three time constants are listed:  $\tau_f = 4.5s$ ,  $\tau_c = 0.5s$ , and  $\tau_b = 150s$ . The Meet interface includes a browser address bar, a presenter name "Ayush Agrawal is presenting", a video call window for "Ayush Agrawal", and a list of other participants. At the bottom, a map shows the location: "38/1142, Kalibadi, Janta Colony, Raipur, Chhattisgarh 492001, India". The timestamp "30 Sep 2021 11:13:42 am" is visible in the bottom right corner.



## Summary of the Lecture

Dr. Ayush Agrawal gives information about kinetics of pore formation, fluid-fluid co-existence - study on long and short chain alcohol, FRAP, small (SAXS) and wide (WAXS) angle, X-ray observation and bi-layer thickness. The lecture gives a wide understanding of lipid molecules and its functions as lipid protein is most important substance for growth of biological organism.