



iGEM Webinar Series

Classes 7 & 8





Who we are?

We are a bunch of undergraduate students from IIT Roorkee conjoining from various disciplines to participate in the **world's largest Synthetic Biology competition, iGEM** (International Genetically Engineered Machine), hosted by MIT, Boston, USA.

We aim to solve one of the major problems the healthcare industry faces today using the tools of Bioengineering and Machine Learning.



























What is iGEM?



- World's Largest Synthetic Biology Competition
- Started in Massachusetts
 Institute of Technology in 2003
- Engineering + Biology →Solve local and global problems



47+ Countries

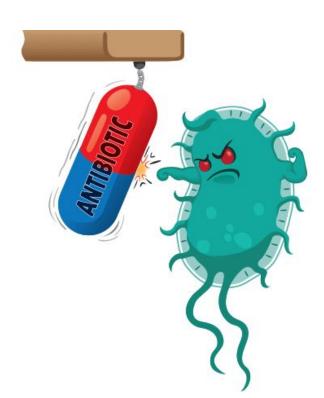
350+ Teams 4000+ Participants

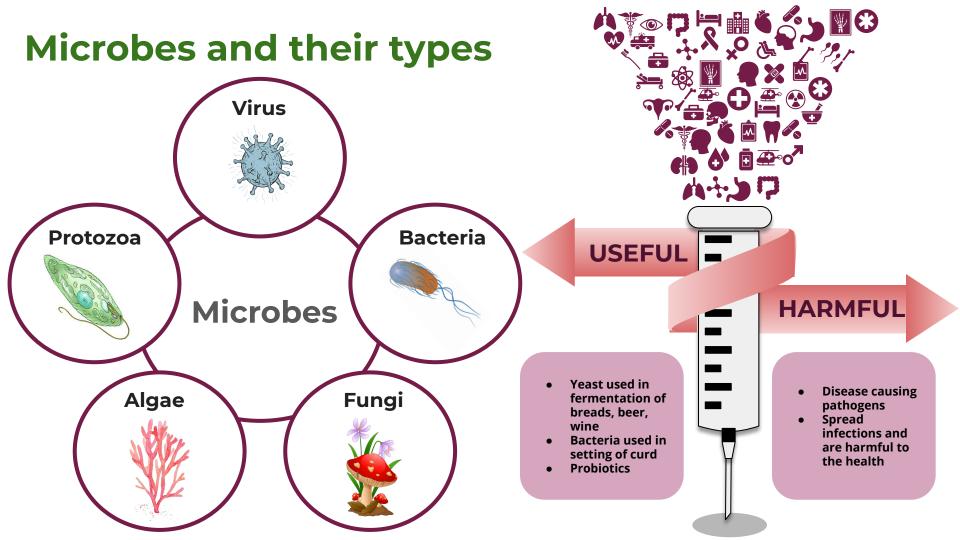


Pre - Webinar Survey



Antibiotic Resistance





What are antibiotics?

- A type of antimicrobial substance active against bacteria
- Most important type of antibacterial agent for fighting bacterial infections
- Antibiotic medications are widely used in the treatment and prevention of such infections. They may either kill or inhibit the growth of bacteria



Bacterial infections vs Viral infections

- Strep throat
- Tuberculosis
- Urinary tract infections



- Chickenpox
- AIDS
- Common colds



Antibiotics work only on Bacterial Infections

What is Antibiotic Resistance

- The bacteria grow strong in nature and can no longer be killed by the antibiotics.
- Such antibiotic-resistant bacteria are called SUPERBUGS.



Antibiotics STOP working on Bacterial Infections

What will happen when Antibiotics don't work?









Post - Antibiotic Era

A single cut by metal could be fatal.



I got hit by a metal wire

What can we do?

Use Antibiotics Responsibly!

4 R's of correct antibiotic usage.







Don't take antibiotics without a prescription



Don't share your antibiotics



Don't leave your antibiotic course incomplete



Don't take antibiotics for cold and flu

Post - Webinar Survey



QnA Session

