



Module PMRF-ISSS115/II/2024

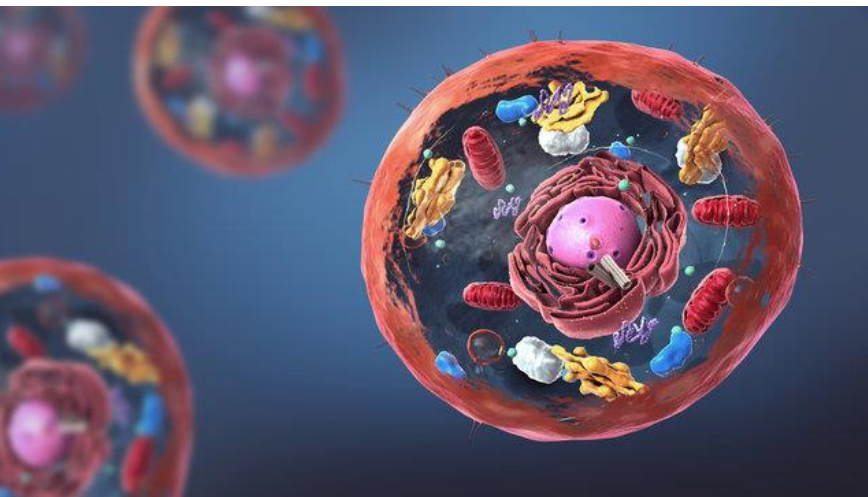
# Biology for Engineers

## Name of the PMRF student

Ranjitha Guttapadu

## Required background of the students taught

Students from any discipline of Engineering or Biologists looking to refresh their basic biological concepts



## Details of the content of the module

This course will be a primer for those with little to no knowledge of Biology beyond high school and who wish to transition into Biological research. It will also act as a refresher for biologists interested in revising basic concepts of Biology.

In this course, we will have lectures and discussions on the following topics:

- Cell – structure and organelles
- Water, chemical bonding, pH
- Structures, functions, and experimental techniques to study the four basic Biomolecules :
  - Carbohydrates
  - Proteins
  - Nucleic acids
  - Lipids
- Central dogma of molecular biology, transcription, translation, and DNA replication
- Genetics
- Evolution

## Schedule of the module

Course start date: 27<sup>th</sup> August, 2024

Course end date: 22<sup>nd</sup> October, 2024

Schedule: Tuesday and Thursday 6:00 p.m. – 7:30 p.m.

Meeting link: Will be shared later

Contact email ID: [issforum@gmail.com](mailto:issforum@gmail.com)

Registration link:

<https://forms.gle/K6RC9xMHnkzbMWLr5>