



Module PMRF-ISSS08

CELL BIOLOGY

Name of the PMRF student

Saswat Choudhury

Required background of the students taught

Any Engineering student
wanting to pursue research
on biological topics

Faculty coordinator

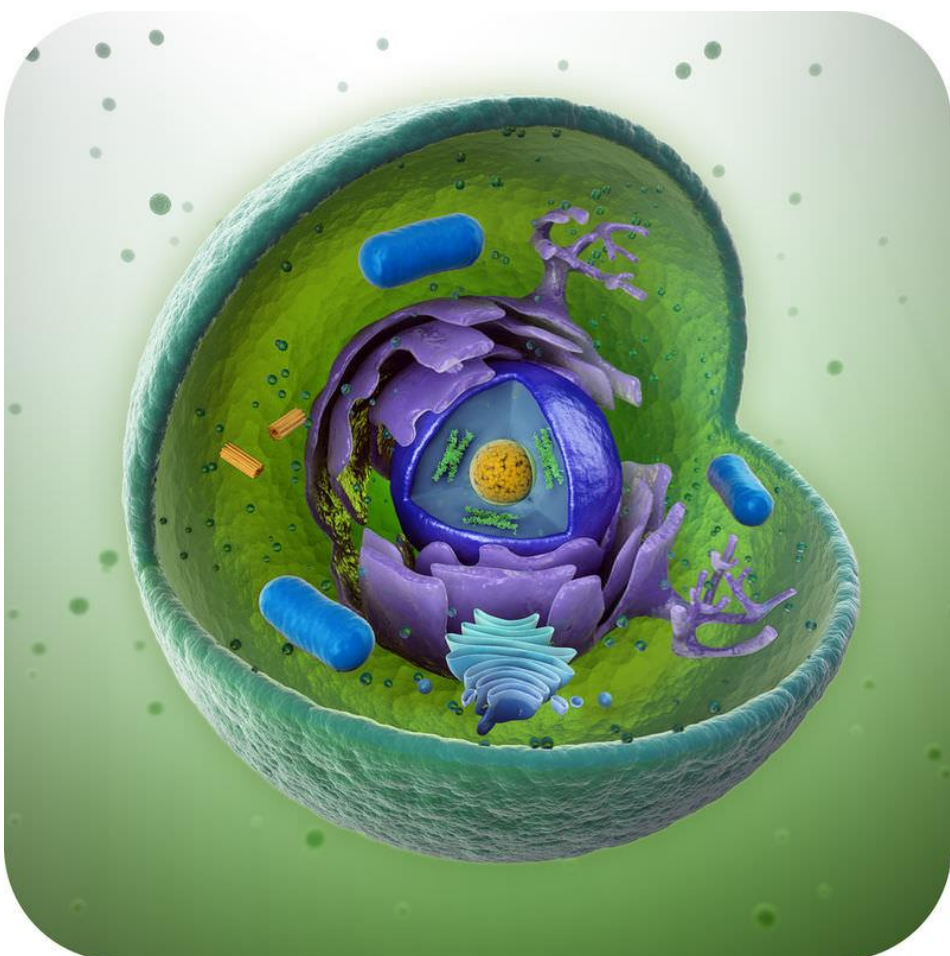
Bhavana H T

Online session coordinator

Darshan , Adithya

Details of the content of the module

- 1) Biomolecules (overview)
 - Water
 - Carbohydrates
 - Proteins
 - Enzymes
 - Nucleic acids
 - Lipids
- 2) Molecular basis of inheritance (overview)
 - Replication
 - Transcription
 - Translation
- 3) Genetics (overview)
 - Chromosome
 - Mendelian laws
 - Genetic engineering
- 4) Basic Biotechnology (applications)
- 5) Inside the Cell:
 - Transport across membrane
 - Cell organelles
 - Mitochondria
 - Endoplasmic reticulum
 - Cytoskeleton
 - ECM
- 6) Cell culture techniques, 3D spheroid models



Schedule of the module

Saturdays and/or Sundays: 6.30 to 7.45 pm

Start date: 29.5.21

End date: 1.9.21

Meeting link :

<https://teams.microsoft.com/l/channel/19%3aOwO9wn9U8CKpyK2dfGWvmSVy5bfao1ZfmF3Y8TIdAHc1%40thread.tacv2/General?groupId=5f501e35-b8bb-4b6e-8c53-9fd119aa4f13&tenantId=6f15cd97-f6a7-41e3-b2c5-ad4193976476>

Contact email ID: iss.forum@gmail.com

Registration link:

<https://docs.google.com/forms/d/1hyOX4Yk4HRkUktMpsiPF0ha2RQrE/edit?vc=0&c=0&w=1&flr=0>