



B. Sc. (Zoology) Semester - II
Paper – II
(Cell Biology)

Unit - 1

Ultrastructure of prokaryotic and eukaryotic cell

<https://www.youtube.com/watch?v=uO53zq9DBIq>

Plasma membrane: Structure- Fluid Mosaic Model and functions

<https://www.youtube.com/watch?v=LT90pLbyqyk>

Endoplasmic reticulum: Types, ultrastructure and functions

<https://www.youtube.com/watch?v=DCKAAID-lho>

Golgi complex: Ultrastructure and functions

https://www.youtube.com/watch?v=l_53exf3gSo

Unit - 2:

Ultrastructure of mitochondria

<https://www.youtube.com/watch?v=3Lz52FHiN1M>

Oxidative phosphorylation – Glycolysis and Krebs's cycle

<https://www.youtube.com/watch?v=t61qQTZk7po>

Electron Transport Chain and terminal oxidation

<https://www.youtube.com/watch?v=MSozaoLLLRU>

Lysosome: Structure, polymorphism and functions

<https://www.youtube.com/watch?v=mj3LoHXru24>

Ultrastructure of Mitochondria

https://youtu.be/e9c_qdK9G7g?si=_coQKMU0HyAIujFD

Structure of Nucleus

https://youtu.be/THz3kss3NO4?si=oGWp53YUUIOMH_zO

Unit - 3:

Nucleus: Ultrastructure of nuclear membrane

https://www.youtube.com/watch?v=oBIej1hy_bc

Structure and functions of nucleolus

<https://www.youtube.com/watch?v=HobSgIXNtYk>

Chromosome: Structure and types, structure of nucleosome

<https://www.youtube.com/watch?v=TbJAZvkqg-8>

Giant chromosomes: Lamp-brush and polytene chromosome

<https://www.youtube.com/watch?v=a1aBRnWw5Is>

Unit - 4:

Ribosome: Structure, types, Lake's model and functions

<https://www.youtube.com/watch?v=fP5m249UXy8>

Somatic cell division: Cell cycle and Mitosis

<https://www.youtube.com/watch?v=BcAJ4uaESxA&t=3618s>



Meiosis (different phases and significance), synaptonemal complex

<https://www.youtube.com/watch?v=RnHD2LixauM>

Cellular ageing and cell death, Elementary idea of cancer and its causative agents

<https://www.youtube.com/watch?v=fICSnb2RRYc>