

DEPARTMENT OF ZOOLOGY

S.NO.	CLASS	SUBJECT	TOPIC	LINK
1.	III Major	Apiculture	Development of Honey bee – egg, larva and pupa	https://www.youtube.com/watch?v=sSk_ev1eZec
2.	”	”	The bee comb and its architecture	https://www.youtube.com/watch?v=3RJ6EDpYpqq
3.	”	”	Extraction of honey	https://www.youtube.com/watch?v=AfC1JBGx2TY
4.	”	”	Bee wax-production-method of extraction	https://www.youtube.com/watch?v=5tkOr4-tkZc
5.	”	”	Inter-relationships of plants and bees	https://www.youtube.com/watch?v=-hNzG_Noel4

S.NO.	CLASS	SUBJECT	TOPIC	LINK
1.	II Major	Cell & Molecular Biology	DNA as genetic material	https://www.youtube.com/watch?v=ik2JWI90pik
2.	”	”	constancy of DNA structure	http://www.answers.com/Q/What_is_meant_by_DNA_constancy
3.	”	”	DNA structure	https://www.youtube.com/watch?v=o_-6JXLYS-k
4.	”	”	DNA Replication	https://www.youtube.com/watch?v=dKubyIRiN84
5.	”	”	DNA Hybridization,	https://www.youtube.com/watch?v=JNPZeCk6ay0
6.	”	”	Cell division – mitosis	https://www.khanacademy.org/science/biology/cellular-molecular-biology/mitosis/v/mitosis
7.	”	”	Meiosis	https://www.khanacademy.org
8.	”	”	Different types of RNA, transcription	https://www.slideshare.net
9.	”	”	processing of ribosomal RNA	https://www.youtube.com/watch?v=Ht57hRaN_WE
10.	”	”	steps in protein synthesis	https://www.youtube.com/watch?v=2zAGAmTkZNY

S.NO.	CLASS	SUBJECT	TOPIC	LINK
1.	I Major	Animal diversity-I Invertebrata	Malaria: Life Cycle of Plasmodium	https://www.youtube.com/watch?v=VfxjJVLKWZw
2.	”	”	Canal system in sponges	https://www.youtube.com/watch?v=ctdZmPQfx_o
3.	”	”	Coral reefs	http://wwf.panda.org/about_our_earth/blue_planet/coasts/coral_reefs/
4.	”	”	Life cycle of obelia colony	https://www.youtube.com/watch?v=QOK-uHCr0HE
5.	”	”	Life cycle of <i>Fasciola hepatica</i>	https://www.youtube.com/watch?v=L-fAiojcdE
6.	”	”	Life cycle of <i>Wuchereria bancrofti</i>	https://www.youtube.com/watch?v=mcsQZkknVlk

S.NO.	CLASS	SUBJECT	TOPIC	LINK
1.	III Major	Immunology & Microbiology	Immunity – Types of immunity	https://study.com/academy/lesson/what-is-immunity-definition-types.html
2.	”	”	Immunoglobulin – structure	https://www.youtube.com/watch?v=KP0U0sI-AgI
3.	”	”	Humoral immune response	https://www.youtube.com/watch?v=dTb0iEUS1oA
4.	”	”	Cell – mediated immune response	https://www.youtube.com/watch?v=1nVjw3mKjT0
5.	”	”	Role of soil microbes in N ₂ fixation	https://www.youtube.com/watch?v=MsPZp7lM16A
6.	”	”	Production of Antibiotic penicillin	https://www.youtube.com/watch?v=RgQBwZxTt64

S.NO.	CLASS	SUBJECT	TOPIC	LINK
1.	II Major	Genetics	Transformation of genetic material in bacteria	https://www.youtube.com/watch?v=sSjKh2fgDIQ
2.	”	”	Conjugation	https://www.youtube.com/watch?v=hm8SZaFmlWg
3.	”	”	Transduction	https://www.youtube.com/watch?v=VX1Ze5edmkE
4.	”	”	Sexduction	https://www.youtube.com/watch?v=Z1IUZ_WxJqo
5.	”	”	Types of mutations	https://www.youtube.com/watch?v=OlBSiKRnPXs
6.	”	”	Hardy – Weinberg Equilibrium	https://www.youtube.com/watch?v=4Kbruik_LOo

S.NO.	CLASS	SUBJECT	TOPIC	LINK
1.	I Major	Ecology & Toxicology	Animal relationship	https://www.youtube.com/watch?v=zSmL2F1t81Q
2.	”	”	Population ecology	http://www.powershow.com/view/6298c-YjBkY/Population Ecology Population Growth and Regulation powerpoint ppt presentation
3.	”	”	Ecological pyramids	http://www.powershow.com/view/4e0afa-N2Y3Z/ECOLOGICAL PYRAMIDS powerpoint ppt presentation
4.	”	”	Ecosystem	https://www.youtube.com/watch?v=8oHpyNjweB0

S.NO.	CLASS	SUBJECT	TOPIC	LINK
1.	III Major	Applied Biotechnology	Unit – I: Biotechnological methods for Sewage and Waste water treatment	www.organicbiotech.com/waste-water-treatment/
2.	”	”	Microbial degradation of selected Xenobiotics (Hydrocarbon, Pesticides).	https://www.ncbi.nlm.nih.gov/pubmed/
3.	”	”	Biofuels	re-biofuels">https://www.nrel.gov>re-biofuels
4.	”	”	Basic technology for plant tissue culture	http://vlab.amrita.edu/?sub=3&brch=187&sim=1100&cnt=1
5.	”	”	Protoplast Fusion	http://www.biologydiscussion.com/
6.	”	”	micropropagation techniques	https://www.technologytimes.pk/micro-propagation-techniques-and-applications/
7.	”	”	Genetic manipulation of 'nif' gene	https://link.springer.com/chapter/10.1007/978-1-4757-5163-5_22
8.	”	”	Fermentation Technology	www.biologydiscussion.com/fermentation/fermentation-technology...types.../17492
9.	”	”	Bioreactors	https://www.zeta.com/en/bioreactors-fermentation-systems_161.html
10.	”	”	Biotransformation of Ethanol	www.icmnc.com/innovation/ethanol/ethanol-production-process.html
11.	”	”	Microbial organisms and enzyme production	www.tandfonline.com/doi/pdf/10.3109/07388558409082583
12.	”	”	Industrial application of microbial enzymes	https://link.springer.com/content/pdf/10.1007/978-81-322-2259-0_9.pdf
13.	”	”	Enzyme Biosensor	https://www.omicsonline.org/enzyme-based-sensors-scholarly-open-access-journals.php
14.	”	”	Human genome project	https://www.genome.gov/10001772/All-About-The--Human-Genome-Project-HGP
15.	”	”	Gene therapy	https://www.sciencedaily.com/terms/gene_therapy.html
16.	”	”	Bio-weapons	https://www.un.org/disarmament/wmd/bio/

S.NO.	CLASS	SUBJECT	TOPIC	LINK
1.	III Major	Animal Physiology	Carbohydrates – Classification	www.tuscany-diet.net/carbohydrates/classification-functions/
2.	”	”	Proteins – Classification	https://www.ebi.ac.uk/training/online/course/...protein-classification.../protein-classificati..
3.	”	”	Lipids Classification	https://www.kullabs.com/classes/subjects/units/lessons/notes/note-detail/6684
4.	”	”	Enzymes – Classification	www.namrata.co/classification-of-enzymes/
5.	”	”	Role of enzymes in carbohydrate metabolism	www.sciencedirect.com/science/article/pii/S0022202X15442290
6.	”	”	Urea cycle	https://www.sciencedirect.com/topics/medicine-and-dentistry/urea-cycle
7.	”	”	Respiratory pigments	https://study.com/academy/lesson/respiratory-pigments-animals-lesson-quiz.html
8.	”	”	Anaerobiosis	www.dictionary.com/browse/anaerobiosis
9.	”	”	Heart diseases	https://www.world-heart-federation.org/resources/different-heart-diseases/
10.	”	”	Nephritis	https://www.healthline.com/health/acute-nephritic-syndrome
11.	”	”	Blood urea	https://acutecaretesting.org/.../urea-and-the-clinical-value-of-measuring-blood-urea-co.
12.	”	”	Mechanism of muscle contraction	https://www.ncbi.nlm.nih.gov/pubmed/2959261
13.	”	”	Muscle fatigue	https://www.boxrox.com/muscle-fatigue-recovery/
14.	”	”	Conduction of nerve impulse	www.biologydiscussion.com/neural-control/mechanism-of...nerve-impulse.../5013
15.	”	”	Neurotransmitters	https://blog.cognifit.com/types-of-neurotransmitters/
16.	”	”	Neuromuscular junction	https://oli.cmu.edu/jcourse/webui/guest/look.do?context...confirm=true
17.	”	”	Islets of Langerhans	https://www.diabetesresearch.org/islet-cells

18.	”	”	Menopause- Hormonal control	www.health24.com/.../Menopause/Menopause.../The-role-of-hormones-in-menopause.
19.	”	”	Bioluminescence	https://www.britannica.com/science/bioluminescence
20.	”	”	Hormonal control - Lactation	www.springer.com/us/book/9783642813917

DEPARTMENT OF BOTANY

S.No	Year	Subject	Link
1	I Year Allied Botany	Plant Diversity and Medicinal Botany	http://www.biologydiscussion.com/algae/life-cycle-algae/volvox-occurrence-structure-and-reproduction-with-diagrams/21149
2	I Year Allied Botany	Plant Diversity and Medicinal Botany	http://www.biologydiscussion.com/fungi/polyporus-habitat-vegetative-mycellium-and-reproduction/24092
3	I Year Allied Botany	Plant Diversity and Medicinal Botany	http://www.biologydiscussion.com/pteridophytes/lycopodium-habit-and-habitat-and-morphology/53176
4	I Year Allied Botany	Plant Diversity and Medicinal Botany	http://www.biologydiscussion.com/botany/bryophytes/life-cycle-of-funaria-with-diagram-bryopsida/53931
5	I Year Allied Botany	Plant Diversity and Medicinal Botany	http://sparknotes4pak.blogspot.in/2012/04/structure-and-development-of.html
6	I Year Allied Botany	Plant Diversity and Medicinal Botany	http://www.plantscience4u.com/2014/06/merits-and-demerits-of-bentham-and.html#.Wj2Vj2fTm1s
7	I Year Allied Botany	Plant Diversity and Medicinal Botany	http://vle.du.ac.in/mod/book/print.php?id=13270&chapterid=29150
8	II Year NME Botany	Food and Nutrition	http://www.preservearticles.com/201105307242/5-basic-importance-of-food-preservation.html

9	II Year NME Botany	Food and Nutrition	https://www.slideshare.net/readyprojects/importance-of-food-storage-for-humans?next_slideshow=1
10	II Year NME Botany	Food and Nutrition	https://girijashankarblog.wordpress.com/2016/03/15/food-preservation-by-low-temperature/
11	I Year Allied Botany	Embryology, Anatomy, Physiology and Biotechnology	http://www.kshitij-pmt.com/Biology/Sexual-reproduction-in-flowering-plants/Pre-fertilisation/stamen-microsporangium-pollen-grain.aspx