

IDC SYLLABUS DISTRIBUTION (FOR ALL SEMESTER)

TOPIC (THEORY)	ALLOTTED TEACHER
Unit 1: Animal Diversity : Phylum Characters and example: [Non-chordates- Porifera, Cnidaria, Ctenophora, Platyhelminthes, Nematelminthes, Annelida, Arthropoda, Mollusca and Echinodermata]; Chordata	DEBOLINA SAHA
Unit 2: Genetics : 1. Mendelian Principles and Laws of inheritance 2. Linkage and Recombination basic Concepts 3. Sex Determination with reference to Drosophila [only genic balance theory] 4. Chromosomal Aberration [Structural and Numerical]	DEBOLINA SAHA
Unit 3: Biodiversity and Wildlife : 1. Biodiversity: Definition, types and value 2. Biodiversity: Indices [Shannon & Simpson] 3. Conservation: in situ and ex situ [outline idea] 4. Conservation Priority: Hotspot, Megadiversity, Sensitive Ecosystem 5. Indigenous Knowledge and PBR: Basic Concepts	KATHA MISHRA
Unit 4: Insect Vectors : 1. Concept of Vector: Biological and Mechanical Vectors with examples 2. Disease cycle & Reservoir Concept 3. Major Vectors: Mosquito (Anopheles sp. & Aedes sp.) Life cycle, control, role as vector.	KATHA MISHRA
Unit 5: Laboratory techniques and Instrumentation 5 1. Basics of Light Microscopy 2. Principles and Application of Colorimetry 3. Principles and application of Ultracentrifugation	DEBOLINA SAHA
TOPIC (PRACTICAL)	ALLOTTED TEACHER
1. Karyotype analysis of Klinefelter, Down, Turner, Edward & Patau Syndrome 2. Identification (Phylum and specimen characters): Amoeba, Paramecium, Sycon, Neptune's Cup, Taenia, Ascaris, Nereis, Pheretima, Pila, Lamelledens, Penaeus, Macrobrachium, Musca, Anopheles, Culex, Asterias.	DEBOLINA SAHA
3. Project on an ecosystem	KATHA MISHRA

