COURSE OUTCOME – UNDERGRADUATE ZOOLOGY HONOURS (CBCS SYSTEM)

NAME OF THE PROGRAMME	YEAR OF INTRODUCTION	COURSE OUTCOME		
BSC	**2018**	**COURSE**	**COURSE NAME**	**COURSE OUTCOME**
		SEMESTER – 1 CC1 [NON CHORDATES 1] (FM 40)	UNIT 1: Basics of Animal Classification	Knowledge on Systematics, Taxonomy and Classification. Introduction to the vast diversity of non-chordates.
			UNIT 2: Protista and Metazoa	Knowledge on different schemes of classification and physiology of Protozoa. Knowledge on symmetry and segmentation of Metazoa
			UNIT 3: Porifera	Knowledge on classification, different biological systems and physiology of Porifera.
			UNIT 4: Cnidaria	Knowledge on classification and physiology of Cnidaria. Ideas on formation and conservation of coral reef.
			UNIT 5: Ctenophora	Knowledge on the general characteristics of Ctenophora.
			UNIT 6: Platyhelminthes	Concept of classification and life-cycle of parasitic platyhelminths.
			UNIT 7: Nematoda	Concept of classification and life-cycle of parasitic nematodes. Knowledge on parasitic adaptation.
		SEMESTER – 1 CC1 PRACTICAL (FM 20)		Hands-on training on identifying different non-chordates based on their characters. Isolation, preparation and identification of free living protozoans and gut parasites of cockroach.

		SEMESTER – 1 CC2 [ECOLOGY] (FM 40)	Unit 1: Introduction to Ecology	Basic understanding of ecology & Biosphere. Knowledge on limiting factors.
			Unit 2: Population	Overall ideas on the attributes of population as well as population interactions.
			Unit 3: Community	Knowledge on characteristics of community.
			Unit 4: Ecosystem	Concept on types and different aspects of ecosystems. Basic idea on different biogeochemical cycles.
			Unit 5: Applied Ecology	Concept on wildlife and its management.
		SEMESTER – 1 CC2 PRACTICAL (FM 20)		Hands-on training on limnological parameters. Determination of different attributes of population
		SEMESTER – 2 CC3 [NON CHORDATES 2] (FM 40)	Unit 1: Introduction	Idea on coelom and metamerism.
			Unit 2: Annelida	Knowledge on classification, body plan and physiology of annelida.
			Unit 3:Arthropoda	Knowledge on classification, physiology and development of arthropods.
			Unit 4: Onychophora	Concept of Onychophora; evolutionary significance and affinities.
			Unit 5: Mollusca	Understanding of classification and physiology of mollusca. Evolutionary significance of Trochophore larva.
			Unit 6: Echinodermata	Acquaintance on classification and body plan. Concepts on various Larval forms Affinities with Chordates
			Unit 7: Hemichordata	General characters and its relationship with non-chordates and chordates.

		SEMESTER – 2 CC3 PRACTICAL (FM 20)		Hands-on training on identifying different non-chordates based on their characters. Identification and study of different organs and systems of earthworm and cockroach. Project report on larval forms.
		SEMESTER – 2 CC4 [CELL BIOLOGY] (FM 40)	Unit 1: Overview of Cells	Concept on basic structure of Prokaryotic and Eukaryotic cells, Viruses, Viroid, Prion and Mycoplasma.
			Unit 2: Plasma Membrane	Concept on structure, cell junctions and Transport across the plasma membrane.
			Unit 3: Cytoplasmic organelles I	Concept on the structure and functions of various organelles Protein sorting and mechanisms of vesicular transport.
			Unit 4: Cytoplasmic organelles II	Concept on the structure and functions of various organelles
			Unit 5: Cytoskeleton	Idea on composition, structure and function.
			Unit 6: Nucleus	Idea on composition, structure and function.
			Unit 7: Cell Division	Cell cycle and the process of cell division. Concept on Cancer.
			Unit 8: Cell Signaling	Types of signaling molecules and receptors. Signaling pathways. Apoptosis and Necrosis.
		SEMESTER – 2 CC4 PRACTICAL (FM 20)		Hands-on training on mitosis, meiosis and cell viability. Identification of Barr body.
		SEMESTER – 3 CC5 [CHORDATES] (FM 40)	Unit 1: Introduction to Chordates	Introduction to the vast diversity of chordates, their characters and classification
			Unit 2: Protochordata	Study of specimens and their classification.

				Idea about retrogressive metamorphosis in *Ascidia*. General organization and feeding mechanism of *Branchiostoma*.
			Unit 3: Origin of Chordata	Understanding the origin of chordates and the advancements of chordates over non-chordates.
			Unit 4: Agnatha	General understanding of Agnatha and the importance of Ammocoetes larva.
			Unit 5: Pisces	General characters and classification of bony fishes and their advancement in physiology, migration and parental care.
			Unit 6: Amphibia	General characters and classification of amphibians and their special attributes.
			Unit 7: Reptilia	General characters and classification of Reptilians. Biting mechanism of poisonous snakes.
			Unit 8: Aves	General characters, classification, structural and physiological organization of Aves and their specialties.
			Unit 9: Mammals	General characters, classification, structural and physiological organization of mammals and their specialties. Understanding the affinities shown by Prototheria.
			Unit 10: Zoogeography	Basic concepts on different zoological realms and the distribution of birds and mammals in the different realms.
		SEMESTER – 3 CC5 PRACTICAL (FM 20)		Hands-on training on identifying different chordates based on their characters. Knowledge on biological system through dissection and mounting
		SEMESTER – 3 CC 6 [Animal Physiology: Controlling & Coordinating Systems]	Unit 1: Tissues	Knowledge of structure and functions of different types of tissues.
			Unit 2: Bone and Cartilage	Structural organization of bones and cartilages and process of formation.
			Unit 3: Nervous System	Concept on the structure of neurons and propagation of nerve impulse.

		(FM 40)	Unit 4: Muscular system	Study of different types of muscles and their mechanism of action.
			Unit 5: Reproductive System	Knowledge on reproductive systems and the role of hormones.
			Unit 6: Endocrine System	Study of different endocrine glands, hormone action and signaling pathways.
		SEMESTER – 3 CC 6 PRACTICAL (FM 20)		Hands-on training on the identifying different tissues of the body and microtomy.
		SEMESTER – 3 CC 7 [GENETICS] (FM 40)	Unit 1: Mendelian Genetics and its Extension	Brief introduction on Mendelian genetics.
			Unit 2: Linkage, Crossing Over and Chromosomal Mapping	Understanding linkage and crossing over through theory and mathematical deductions.
			Unit 3: Mutations	Study of different types of mutations and their repair mechanisms.
			Unit 4: Sex Determination	Knowledge on sex determination of *Drosophila* and mammals.
			Unit 5: Extra-chromosomal Inheritance	Study of extra chromosomal inheritance through various examples.
			Unit 6: Recombination in Bacteria and Viruses	Study of different types of recombination of bacteria.
		SEMESTER – 3 CC 7 PRACTICAL (FM 20)		Logical derivation of different genetic techniques.
		SEMESTER – 3 SEC PAPER-1 (GROUP A) [APICULTURE] (FM 40)	Unit 1: Biology of Bees	Classification, biology and social organization of bees.
			Unit 2: Rearing of Bees	Concept on apiculture and method of extraction of honey.
			Unit 3: Diseases and Enemies	Knowledge on different types of diseases and enemies of bees and control measures.
			Unit 4: Bee Economy	Idea on different products of apiculture industry and their uses.
			Unit 5: Entrepreneurship in Apiculture	Knowledge on prospects of the bee keeping industry.
		SEMESTER – 3 SEC PAPER-1 PRACTICAL (FM 20)		Knowledge on the management in a apiculture farm

		SEMESTER - 4 CC8 [Comparative Anatomy of Vertebrates] (FM 40)	Unit 1: Integumentary System	Knowledge on the integument in birds and mammals
			Unit 2: Skeletal System	Comparative study of skeletal system and visceral arches.
			Unit 3: Digestive System	Study of stomach in birds and mammals. Dentition in mammals.
			Unit 4: Respiratory System	Knowledge on various respiratory organs in different classes of vertebrates.
			Unit 5: Circulatory System	General idea on circulatory system Comparison between heart and aortic arches in different vertebrates.
			Unit 6: Urinogenital System	Evolution of urinogenital system in different vertebrates.
			Unit 7: Nervous System	Evolution of brain in different vertebrate classes.
			Unit 8: Sense Organs	Ideas on sense organs.
		SEMESTER - 4 CC8 PRACTICAL (FM 20)		Hands-on training on identification of scales in fish and disarticulated skeletons of various animals.
		SEMESTER - 4 CC9 [Animal Physiology: Life Sustaining Systems] (FM 40)	Unit 1: Physiology of Digestion	Idea on digestion and absorption of carbohydrate, lipid and protein.
			Unit 2: Physiology of Respiration	Knowledge on ventilation and transport of respiratory gases.
			Unit 3: Physiology of Circulation	Idea on composition of blood, haemopoiesis and haemostasis. Concept of blood groups.
			Unit 4: Physiology of Heart	Understanding on the structure of mammalian heart and its mechanism of action.
			Unit 5: Thermoregulation & Osmoregulation	Idea on thermoregulation and osmoregulation.
			Unit 6: Renal Physiology	Knowledge on structure of mammalian kidney and mechanism of urine formation.
		SEMESTER - 4 CC9 PRACTICAL (FM 20)		Hands-on training on determining various structural and physiological components of blood. Study of individual blood grouping.

		SEMESTER - 4 CC10 [Fundamentals of Biochemistry] (FM 40)	Unit 1: Carbohydrates	Knowledge on the importance of carbohydrates and basic idea on carbohydrate metabolism
			Unit 2: Lipids	Knowledge on the importance of lipids and basic idea on carbohydrate metabolism.
			Unit 3: Proteins	Knowledge on the building blocks and organization of protein and basic idea on protein metabolism.
			Unit 4: Nucleic Acids	Knowledge on the building blocks and organization of nucleic acids.
			Unit 5: Enzymes	Knowledge on the classification and kinetics of enzymes.
			Unit 6: Oxidative Phosphorylation	Knowledge on the electron transport system and oxidative phosphorylation process.
		SEMESTER - 4 CC10 PRACTICAL (FM 20)		Hands on training on qualitative and quantitative analysis of biomolecules and enzyme.
		SEMESTER – 4 SEC Paper-2 (Group A) [Sericulture] (FM 40)	Unit 1: Introduction	Basic idea of sericulture
			Unit 2: Biology of Silkworm	Classification, life cycle and biology of silk moth.
			Unit 3: Rearing of Silkworms	Basic idea on the rearing of silk moth and process of extraction of silk
			Unit 4: Pests and Diseases	Knowledge on different types of diseases and enemies of silk moth and their control measures.
			Unit 5: Entrepreneurship in Sericulture	Concepts on the prospects of silk industry.
		SEMESTER – 4 SEC PAPER-2 PRACTICAL (FM 20)		Knowledge on the management in a sericulture farm
		SEMESTER - 5 CC11 [MOLECULAR BIOLOGY] (FM 40)	Unit 1: Nucleic Acids	Knowledge on the models of nucleic acids
			Unit 2: DNA Replication	Detailed understanding of the process for DNA synthesis in prokaryotes
			Unit 3: Transcription	Detailed understanding of the process for RNA synthesis in prokaryotes
			Unit 4: Translation	Detailed understanding of the process for protein synthesis in prokaryotes

			Unit 5: Gene Regulation	Knowledge on the regulation of RNA synthesis in prokaryotes
			Unit 6: DNA Repair Mechanisms	Basic knowledge on different repair mechanism of DNA repair
			Unit 7: Molecular Techniques	Basic knowledge on the principles of some molecular techniques
		SEMESTER - 5 CC11 PRACTICAL (FM 20)		Hands on training on isolation, quantification and separation of DNA molecules
		SEMESTER – 5 CC12 IMMUNOLOGY (FM 40)	Unit 1: Overview of Immune System	Basic concept on immune system.
			Unit 2: Innate and Adaptive Immunity	Understanding on barriers and immune response to pathogens.
			Unit 3: Antigens	Concept on antigenicity and immunogenicity.
			Unit 4: Immunoglobulins	Knowledge on immunoglobulins, immune complexes and their detection.
			Unit 5: Major Histocompatibility Complex	Understanding MHC molecules and their role in antigen presentation and graft.
			Unit 6: Cytokines	General idea on cytokines.
			Unit 7: Complement System	Understanding different pathways of complement.
			Unit 8: Hypersensitivity	Basic idea of inflammatory and allergic reaction.
			Unit 9: Immunology of disease	Overall idea of reaction of the immune system against diseases.
			Unit 10: Vaccines	Concise idea of immunization and vaccination.
		SEMESTER – 5 CC12 PRACTICAL (FM 20)		Hands-on training on identification of various lymphoid organs and cells of the immune system. 2 Demonstration of antigen-antibody interaction.
		SEMESTER – 5 DSE Paper 1 (Group B) [ENDOCRINOLOGY] (FM 40)	Unit 1: Introduction to Endocrinology	Basic idea on endocrinology.
			Unit 2: Epiphysis, Hypothalamo-hypophysial Axis	Brief idea on epiphysis Concept on hypothalamus, pituitary and hypothalamo-hypophysial axis.
			Unit 3: Peripheral Endocrine Glands	Understanding the structure and function of various peripheral endocrine glands.

			Unit 4: Regulation of Hormone Action	Concise idea on detection and mechanism of action of different hormones. Concept on the role of hormones in reproductive cycles.
		SEMESTER – 5 DSE Paper 1 (Group B) PRACTICAL (FM 20)		Hands-on training on the identification and demonstration of various endocrine glands. Demonstration of hormone assay and microtomy techniques.
		SEMESTER – 5 DSE Paper 2 (Group A) [Animal Behaviour and Chronobiology] (FM 40)	Unit 1: Introduction to Animal Behaviour	Basic idea on animal behaviour
			Unit 2: Patterns of Behaviour	Concise idea on different patterns of behavior.
			Unit 3: Social and Sexual Behaviour	Concept on social and sexual behavior.
			Unit 4: Introduction to Chronobiology	Basic concept on chronobiology
			Unit 5: Biological Rhythm	Understanding on different biological rhythms.
		SEMESTER – 5 DSE Paper 2 (Group A) PRACTICAL (FM 20)		Demonstration of specific behavior of animals using fish and rat as models.
		SEMESTER - 6 CC13 [Developmental Biology] (FM 40)	Unit 1: Introduction	Basic concepts of different aspects of developmental biology
			Unit 2: Early Embryonic Development	Knowledge on different phases of early embryonic development especially that of frog and chick
			Unit 3: Late Embryonic Development	Knowledge on extra-embryonic membranes, implantation and placenta
			Unit 4: Post Embryonic Development	Knowledge on the development of organs and regeneration
			Unit 5: Implications of Developmental Biology	Knowledge on teratogenesis and different techniques related to developmental biology.
		SEMESTER - 6 CC13 PRACTICAL (FM 20)		Hands on training on whole mount of embryonic stages Hand on training on *Drosophila* culture
		SEMESTER - 6	UNIT 1: Origin of life	Concept on the origin of life on Earth, relevant theories and basic idea on RNA world hypothesis.

		CC14 [Evolutionary Biology & Biostatistics] (FM 40)	UNIT 2: Historical review of Evolutionary Concept	Knowledge on different evolutionary Concepts. Understanding on Lamarckian and Darwinian Theories of evolution and their modern approach.
			UNIT 3: Geological time scale, Evolution of horse, Phylogenetic tree, Molecular evolution	Knowledge on geological time scale and evolution of horse. Idea on phylogenetic trees and their interpretations. Concept on convergent and divergent evolution. Understanding Neutral theory of molecular evolution and concept on molecular clock.
			UNIT 4: Sources of variation	Idea of sources of variations. Concept of heritable variations and their role in evolution.
			UNIT 5: Population genetics	Basic idea on population genetics. Knowledge on Hardy-Weinberg Law; its derivation and application; role of evolutionary forces upsetting the equilibrium. Concept of Natural selection and its types. Concise idea on genetic drift mechanism and role of Migration and Mutation in changing allele frequencies.
			UNIT 6: Speciation	Basic idea on Isolating mechanisms. Knowledge on species concept and modes of speciation. Understanding adaptive radiation/macroevolution with special reference to Galapagos finches.
			UNIT 7: Extiction	Idea of different types of extinctions. Concept of K-T extinction.
			UNIT 8:Biostatistics	Understanding biostatistics through theory and mathematical deductions. Ability solve different biostatistical problems

		SEMESTER - 6 CC14 PRACTICAL (FM 20)		Study of vertebrate fossils using models/ pictures. Study of homology and analogy with suitable specimen/model/pictures Hands-on training on Graphical representation and interpretation of data Application of Hardy Weinberg Law in a real population Biostatistical analysis related to correlation and regression in a human population
		SEMESTER - 6 DSE Paper 3 (Group B)- [Parasitology] (FM 40)	Unit 1: Introduction to Parasitology	Basic idea of Parasitism, Parasite, Parasitoid carriers and Vectors. Concept of host parasite relationship.
			Unit 2: Parasitic Protists	Study of Morphology, Life Cycle, Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment of different parasitic Protists.
			Unit 3: Parasitic Platyhelminthes	Study of Morphology, Life Cycle, Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment of different parasitic Platyhelminthes.
			Unit 4: Parasitic Nematodes	Study of Morphology, Life Cycle, Prevalence, Epidemiology, Pathogenicity, Diagnosis, Prophylaxis and Treatment of different parasitic Nematodes.
			Unit 5: Parasitic Arthropods	Knowledge on biology, importance and control of different parasitic Arthropods.
			Unit 6: Parasite Vertebrates	Concise idea on parasite vertebrates.
		SEMESTER - 6 DSE Paper 3 (Group B)- PRACTICAL (FM 20)		Hands-on training on: Identification of parasitic protozoa, platyhelminth, nematode and arthropds through slides/ photographs Study of gut parasites of cockroach. Study of intestinal parasites of poultry bird.
		SEMESTER - 6 DSE Paper 4 (Group C)- [Biology of Insects]	Unit 1: Introduction	Basic idea on habit, habitat, distribution, morphology and biology of insects.
			Unit 2: Insect Taxonomy	Classification of insects and basis of classification..

		(FM 40)	Unit 3: General Morphology of Insects	Concept on general morphology and different body parts.
			Unit 4: Physiology of Insects	Understanding the components of different systems and relared physiological process Types of photoreceptors, their structure-function relationship Metamorphosis types and neuroendocrine control
			Unit 5: Insect Society	Knowledge on social behaviour of insects with special reference to termites. Concept of trophallaxis in different social insects.
			Unit 6: Insect Plant Interaction	Knowledge on Theory of co-evolution, Concept on the role of allelochemicals in host plant mediation Idea of host-plant selection by phytophagous insects Study of major insect pests in paddy
			Unit 7: Insects as Vectors	Knowledge on insects as mechanical and biological vectors. Study of houseflies and mosquitoes as important vectors
		SEMESTER – 6 DSE Paper 4 (Group C) PRACTICAL (FM 20)		Hands-on training on: Study of life-cycle of mosquito/silkmoth Identification of different types of antennae, legs and mouth parts of insects Mounting of wings, spiracles and genitalia of any insect Methodology of collection, preservation and identification of insects. Identification of various castes of *Apis*, *Camponotus Odontotermes* Study of major insect pests of paddy/tea and their damages

COURSE OUTCOME – GE (CBCS SYSTEM)

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BSC	**2018**	**COURSE**	**COURSE NAME**	**COURSE OUTCOME**
		SEMESTER – 1 GE 1 PAPER 1 (Group-A) [Animal Diversity] (FM 40)	**Unit 1: Protista**	Basic knowledge on Protozoa Life cycle of Plasmodium
			Unit 2: Porifera	Brief introduction of the phylum and biological systems
			Unit 3: Radiata	Brief introduction of the phylum and biological systems
			Unit 4: Aceolomates	Brief introduction of the phylum
			Unit 5: Pseudocoelomates	Brief introduction of the phylum
			Unit 6: Annelida	Brief introduction of the phylum Basic concept on segmentation
			Unit 7: Arthropoda	Brief introduction of the phylum Understanding the concept of social life
			Unit 8: Mollusca	Brief introduction of the phylum
			Unit 9: Echinodermata	Brief introduction of the phylum
			Unit 10: Protochordata	Brief introduction
			Unit 11: Pisces	Brief introduction Fish migration
			Unit 12: Amphibia	Brief introduction Concept Parental care
			Unit 13: Reptilia	Brief introduction Idea on poisonous and non-poisonous snake
			Unit 14: Aves	Brief introduction Knowledge on Flight adaptations
			Unit 15: Mammalia	Brief introduction Knowledge on Integumentary glands
		SEMESTER – 1 GE 1 PAPER 1 (Group-A) PRACTICAL		Hands-on training on identifying different non-chordates and chordates based on their characters. Isolation, preparation and identification of gut parasites of cockroach. Knowledge on biological system through dissection

		SEMESTER – 2 GE 1 PAPER 2 (Group- A) –[Human Physiology] (FM 40)	**Unit 1: Digestion and Absorption of Food**	Idea on digestion and absorption of carbohydrate, lipid and protein. Nervous and hormonal control of digestion.
			Unit 2: Functioning of Excitable Tissue (Nerve and Muscle)	Knowledge on structure and physiology of excitable tissues such as nerve and muscle.
			Unit 3: Respiratory Physiology	Basic concept on types and mechanism of respiration.
			Unit 4: Renal Physiology	Knowledge on structure and physiology of kidney.
			Unit 5: Cardiovascular Physiology	Knowledge on structure and physiology of heart. Basic idea on ECG.
			Unit 6: Endocrine and Reproductive Physiology	Understanding on the structure and functions of different endocrine glands Knowledge on mammalian reproductive cycle.
		SEMESTER – 2 GE 1 PAPER 2 (Group- A) PRACTICAL		Hands-on-training on different haematological techniques Identification of different histological sections.

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		COURSE	**COURSE NAME**	COURSE OUTCOME
		SEMESTER – 3 GE 2 PAPER 1 (Group-A) – [Animal Diversity] (FM 40)	**Unit 1: Protista**	Basic knowledge on Protozoa Life cycle of Plasmodium
			Unit 2: Porifera	Brief introduction of the phylum and biological systems
			Unit 3: Radiata	Brief introduction of the phylum and biological systems
			Unit 4: Aceolomates	Brief introduction of the phylum
			Unit 5: Pseudocoelomates	Brief introduction of the phylum
			Unit 6: Annelida	Brief introduction of the phylum Basic concept on segmentation
			Unit 7: Arthropoda	Brief introduction of the phylum Understanding the concept of social life
			Unit 8: Mollusca	Brief introduction of the phylum
			Unit 9: Echinodermata	Brief introduction of the phylum
			Unit 10: Protochordata	Brief introduction
			Unit 11: Pisces	Brief introduction Fish migration
			Unit 12: Amphibia	Brief introduction Concept Parental care
			Unit 13: Reptilia	Brief introduction Idea on poisonous and non-poisonous snake
			Unit 14: Aves	Brief introduction Knowledge on Flight adaptations
			Unit 15: Mammalia	Brief introduction Knowledge on Integumentary glands
		SEMESTER – 3 GE 2 PAPER 1 (Group-A) PRACTICAL		Hands-on training on identifying different non-chordates and chordates based on their characters. Isolation, preparation and identification of gut parasites of cockroach. Knowledge on biological system through dissection

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		COURSE	**COURSE NAME**	**COURSE OUTCOME**
		SEMESTER – 4 GE 2 PAPER 2 (Group- A) –[Human Physiology] (FM 40)	**Unit 1: Digestion and Absorption of Food**	Idea on digestion and absorption of carbohydrate, lipid and protein. Nervous and hormonal control of digestion.
			Unit 2: Functioning of Excitable Tissue (Nerve and Muscle)	Knowledge on structure and physiology of excitable tissues such as nerve and muscle.
			Unit 3: Respiratory Physiology	Basic concept on types and mechanism of respiration.
			Unit 4: Renal Physiology	Knowledge on structure and physiology of kidney.
			Unit 5: Cardiovascular Physiology	Knowledge on structure and physiology of heart. Basic idea on ECG.
			Unit 6: Endocrine and Reproductive Physiology	Understanding on the structure and functions of different endocrine glands Knowledge on mammalian reproductive cycle.
		SEMESTER – 4 GE 2 PAPER 2 (Group- A) PRACTICAL		Hands-on-training on different haematological techniques Identification of different histological sections.